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1125-CS

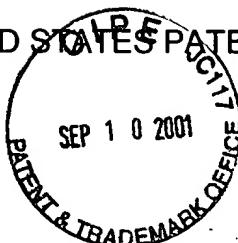
PATENT
U.S. Ser. No. 09/ 821,897

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Luo, Zheng

Serial No.: 09/821,897

Filed: 03/30/2001



Title: SYSTEM ON A CHIP WITH MULTIPLE POWER PLANES AND ASSOCIATE
POWER MANAGEMENT METHODS

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R. Luo
Signature

S. Taylor Ganz
Printed Name

Sept. 8, 2001
Date

**ATTENTION TO THE OFFICIAL DRAFTSMAN
TRANSMITTAL OF FORMAL DRAWINGS**

Transmitted herewith are thirty-seven (37) sheets of formal drawings to be substituted for the drawings originally filed in connection with the above-identified application for patent.

Respectfully submitted,
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Attorneys for Applicant

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Attorney's Docket: 2836- P139US

By: James J. Murphy
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Reg. No. 34,503

Date Sept. 7, 2001



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APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
09/821,897	SEP 10 2001 03/30/2001	Luo Zheng	1125-CS

OPI
PATENT & TRADEMARK OFFICE

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1201 Elm
Dallas, TX 75270

CONFIRMATION NO. 8975
FORMALITIES LETTER



OC000000006434480

Date Mailed: 08/16/2001

NOTICE TO FILE CORRECTED APPLICATION PAPERS

Filing Date Granted

This application has been accorded an Application Number and Filing Date. The application, however, is informal since it does not comply with the regulations for the reason(s) indicated below. Applicant is given **TWO MONTHS** from the date of this Notice within which to correct the informalities indicated below. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

The required item(s) identified below must be timely submitted to avoid abandonment:

- Substitute drawings in compliance with 37 CFR 1.84 because:
 - drawing sheets do not have the appropriate margin(s) (see 37 CFR 1.84(g)). Each sheet must include a top margin of at least 2.5 cm. (1 inch), a left side margin of at least 2.5 cm. (1 inch), a right side margin of at least 1.5 cm. (5/8 inch), and a bottom margin of at least 1.0 cm. (3/8 inch);

*A copy of this notice **MUST** be returned with the reply.*

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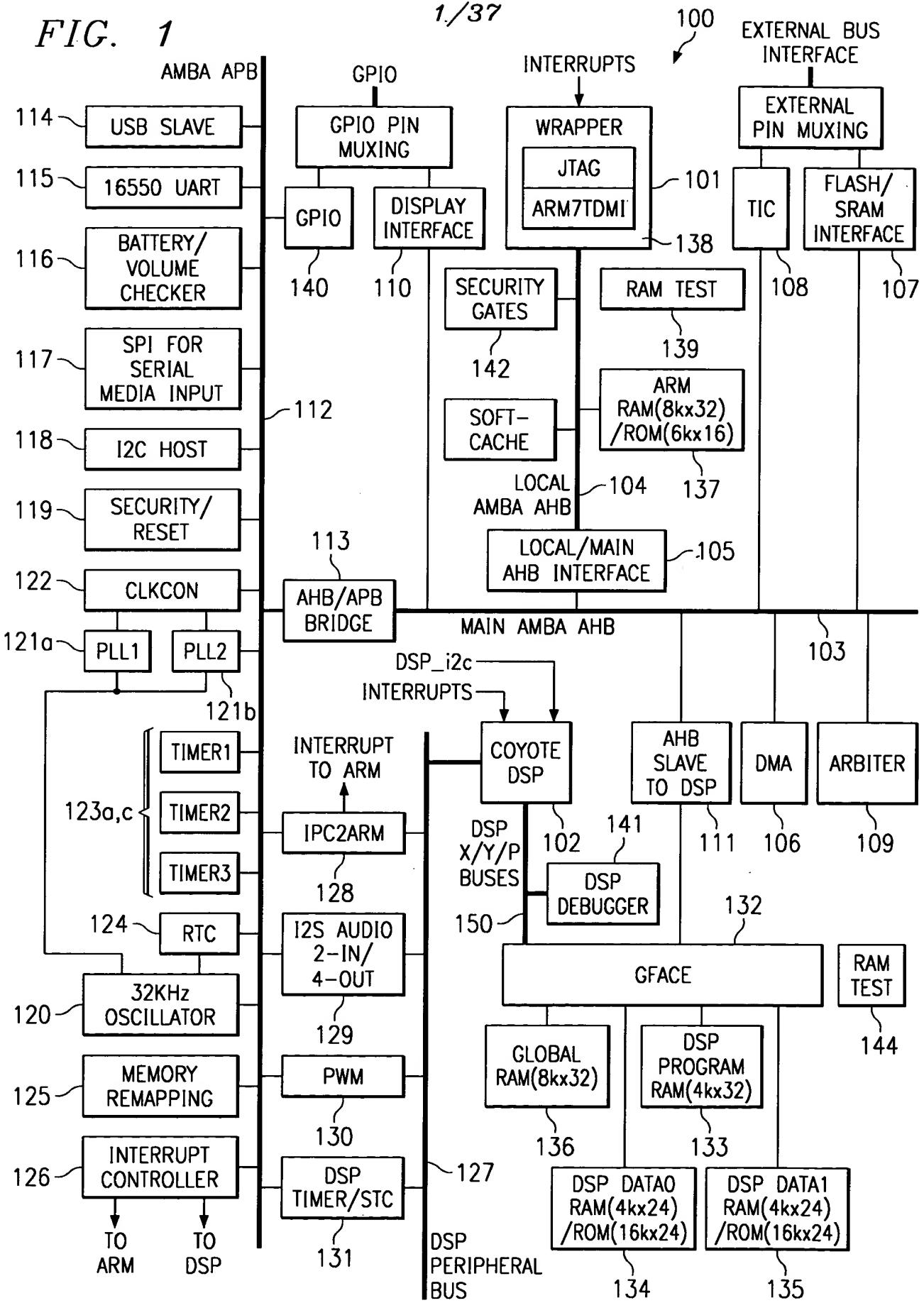
Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

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FIG. 1



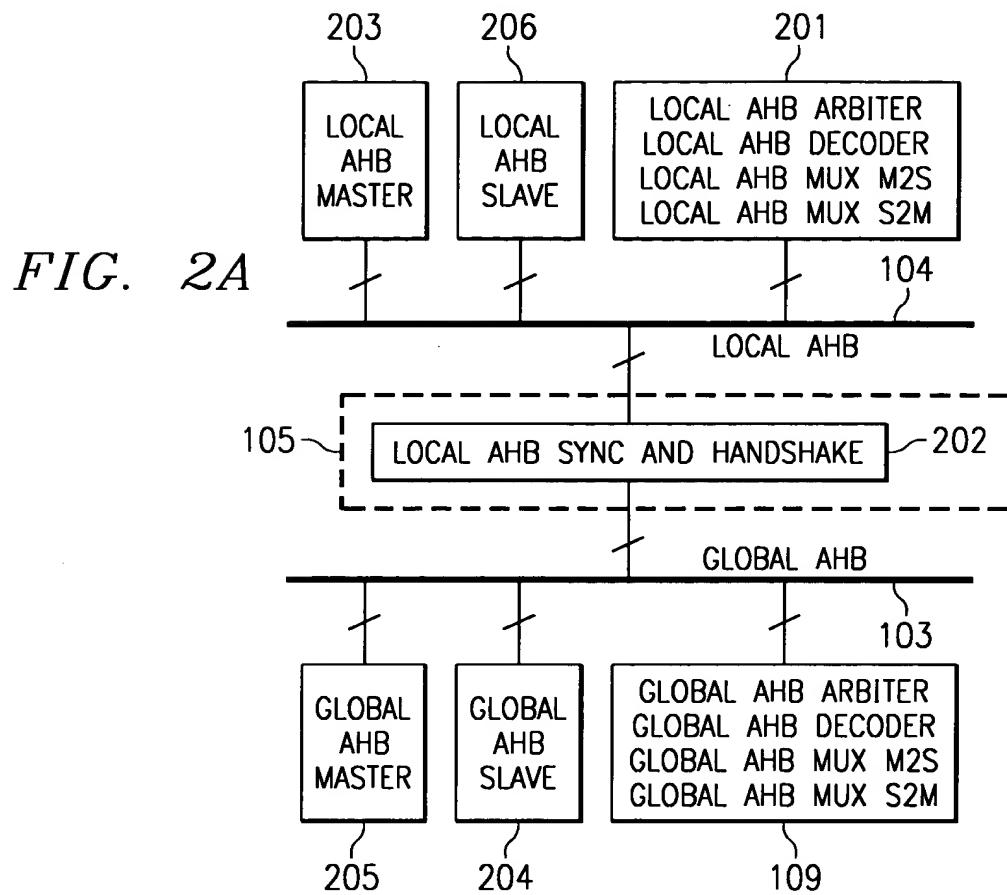
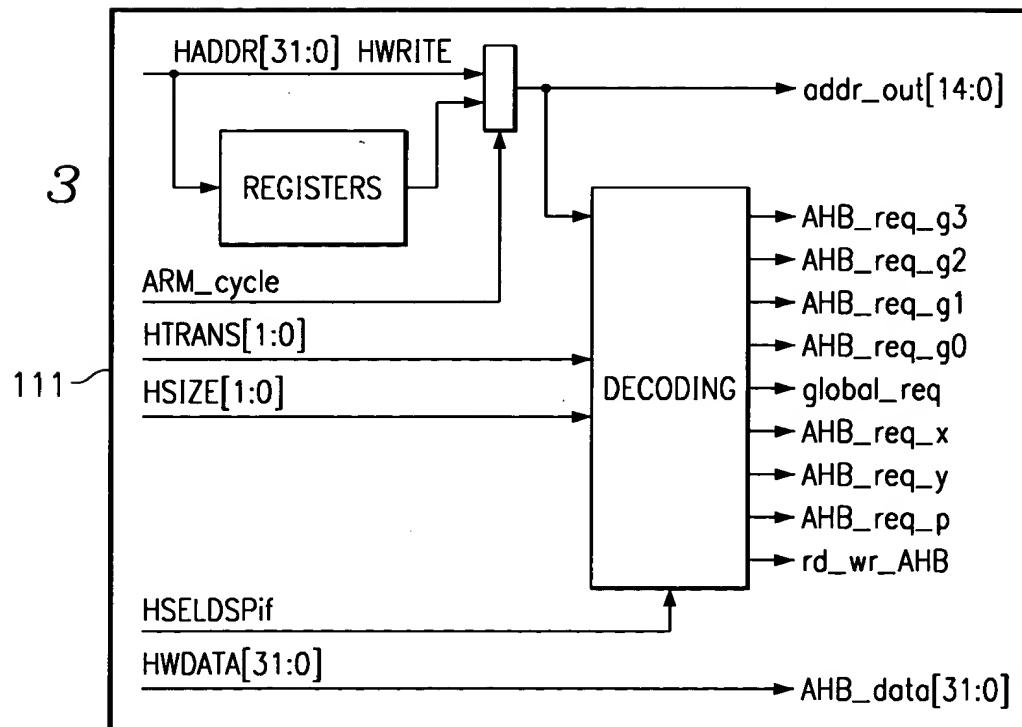
*FIG. 3*

FIG. 2B

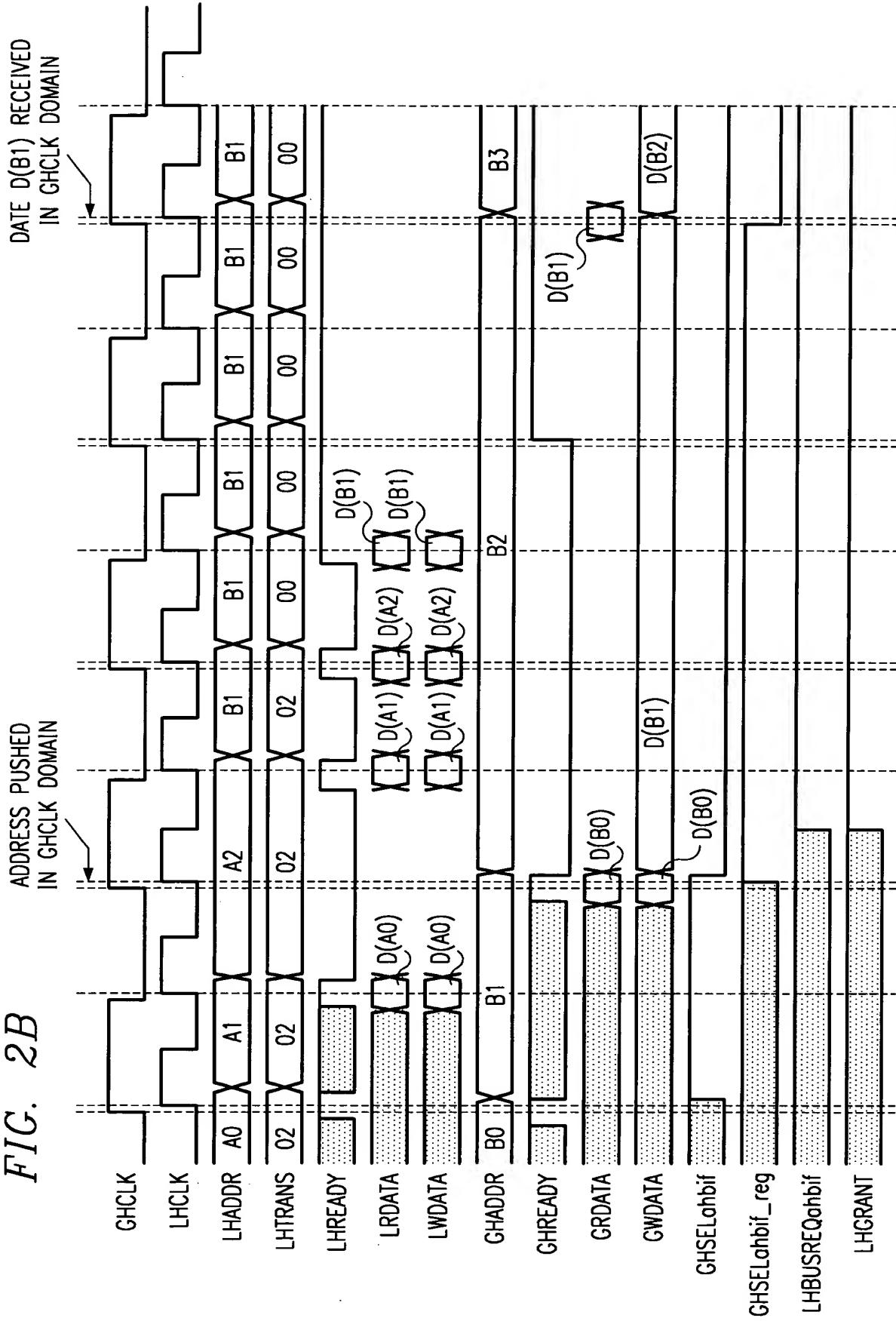


FIG. 2C

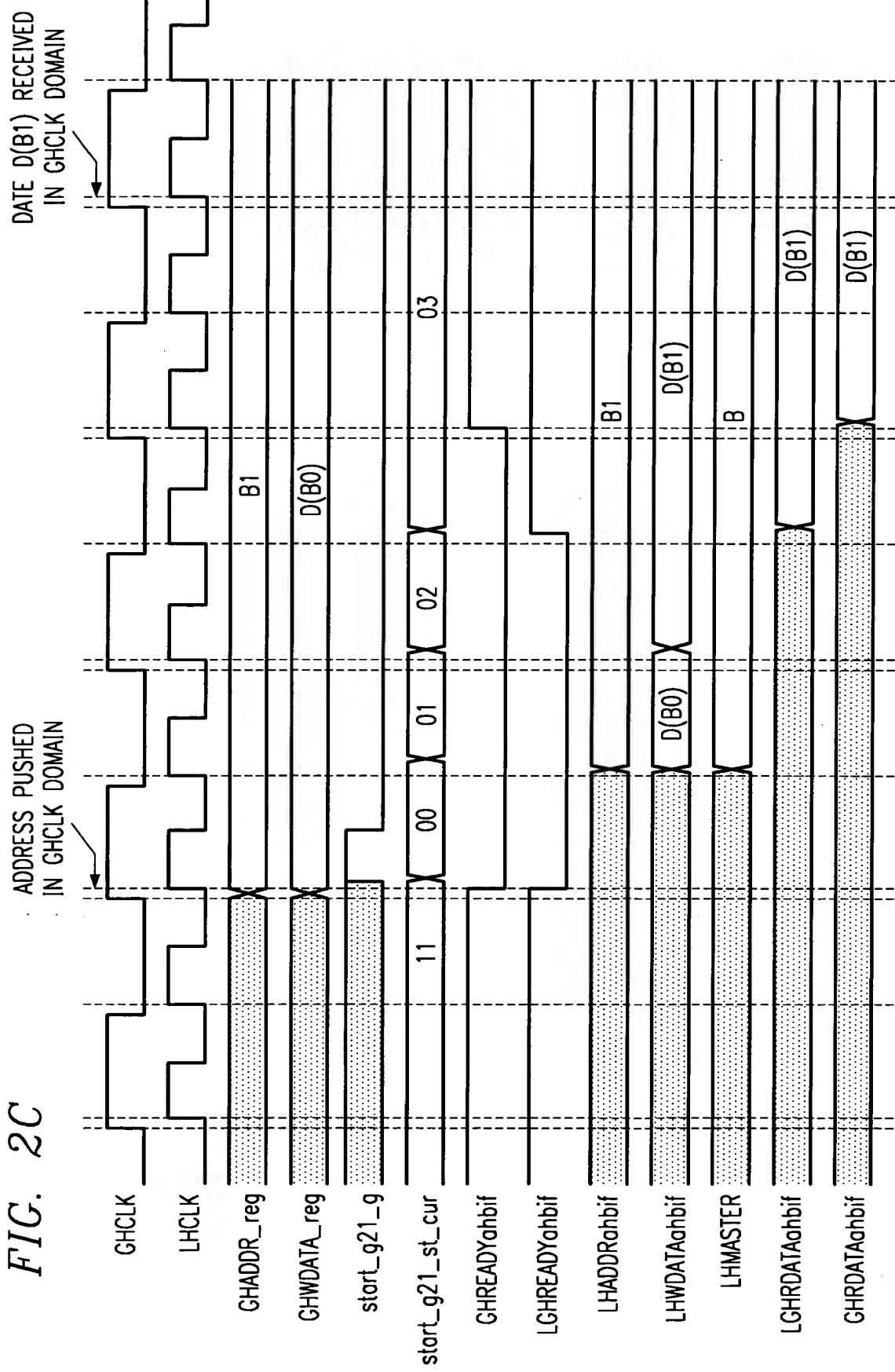


FIG. 2D ADDRESS PUSHED IN LHCLK DOMAIN

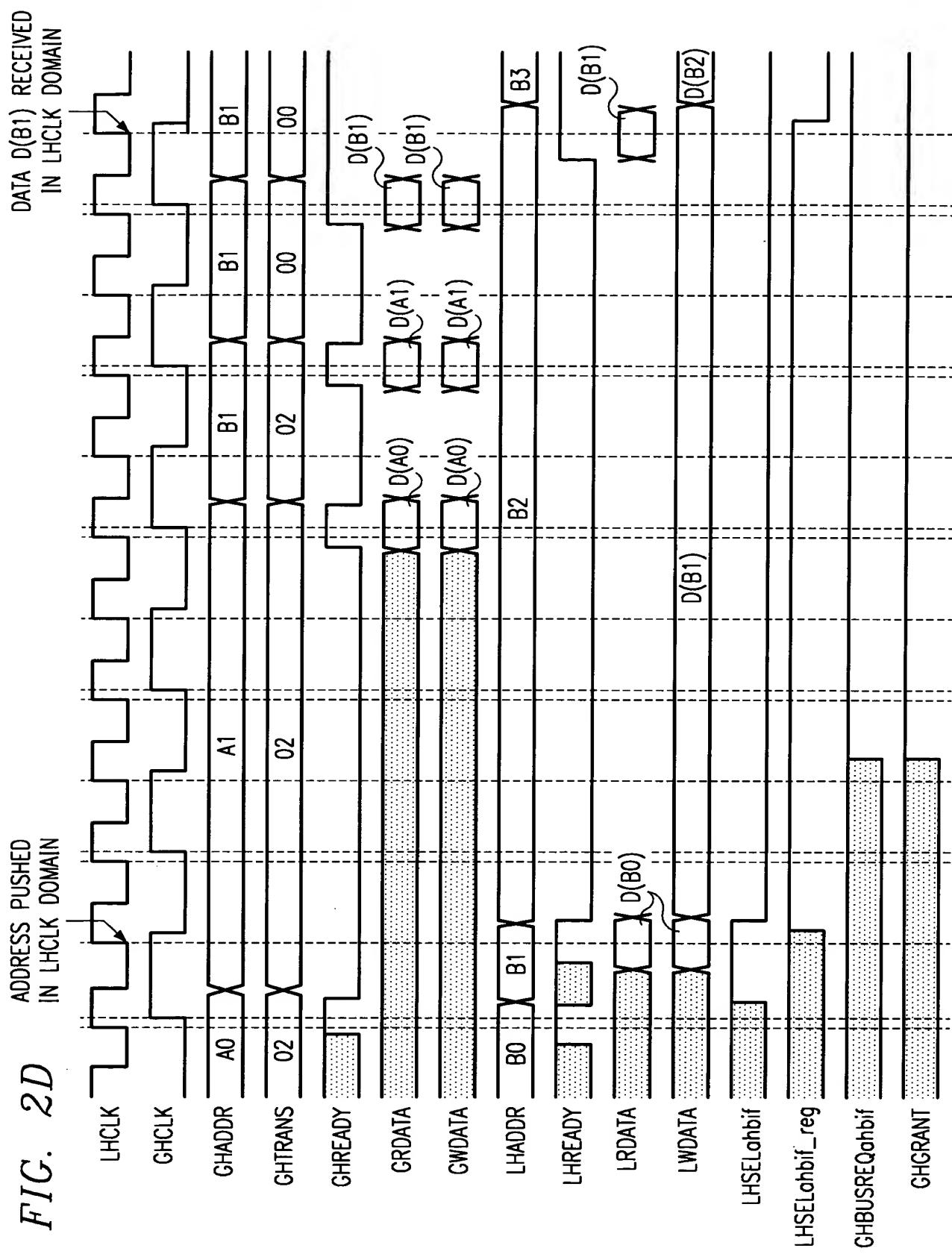
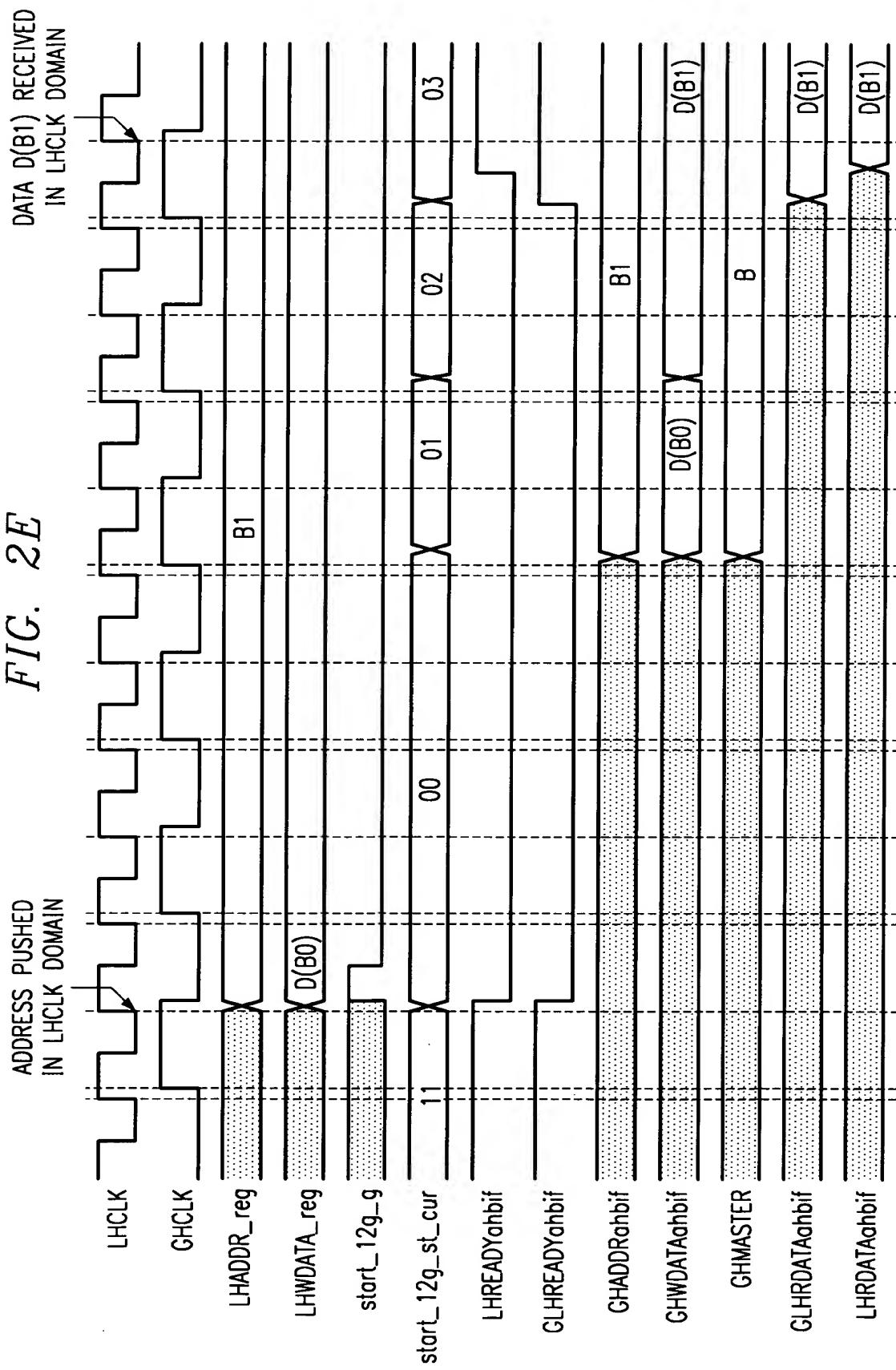
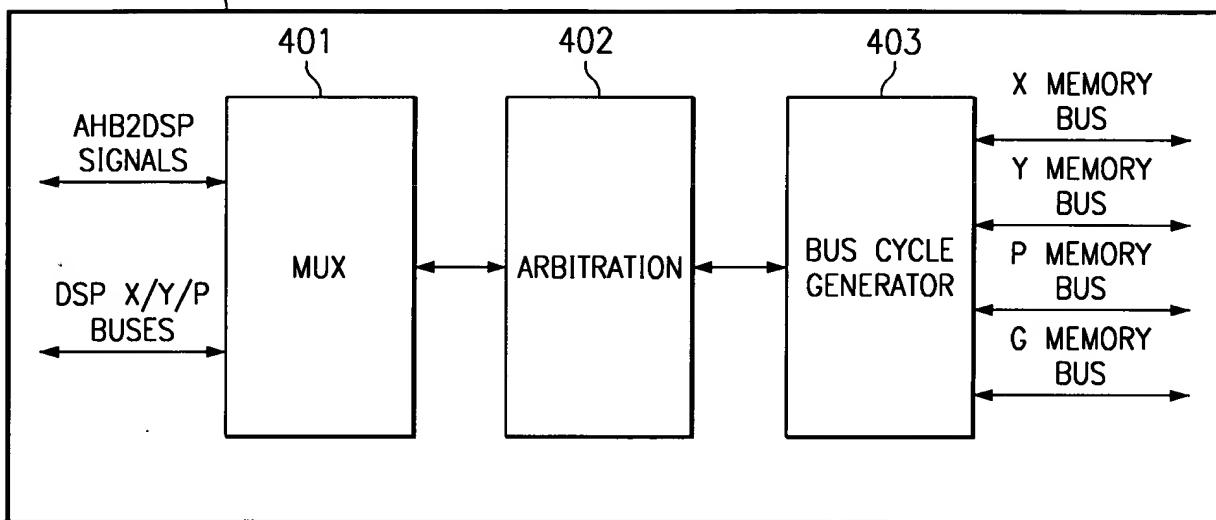


FIG. 2E



132

FIG. 4A



00000000000000000000000000000000

FIG. 4B

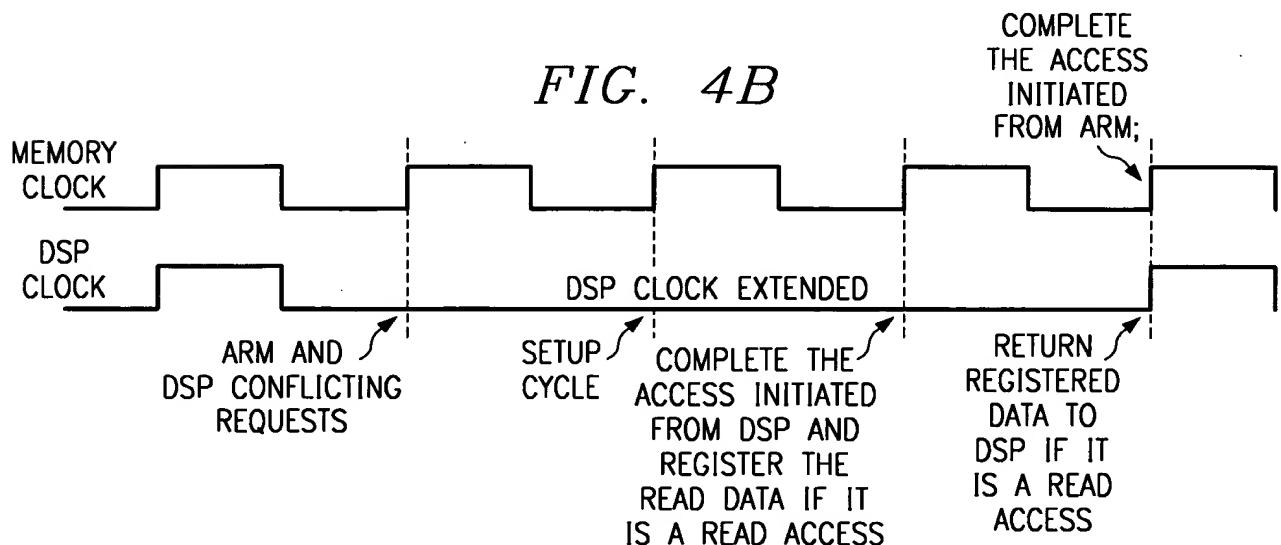


FIG. 4C

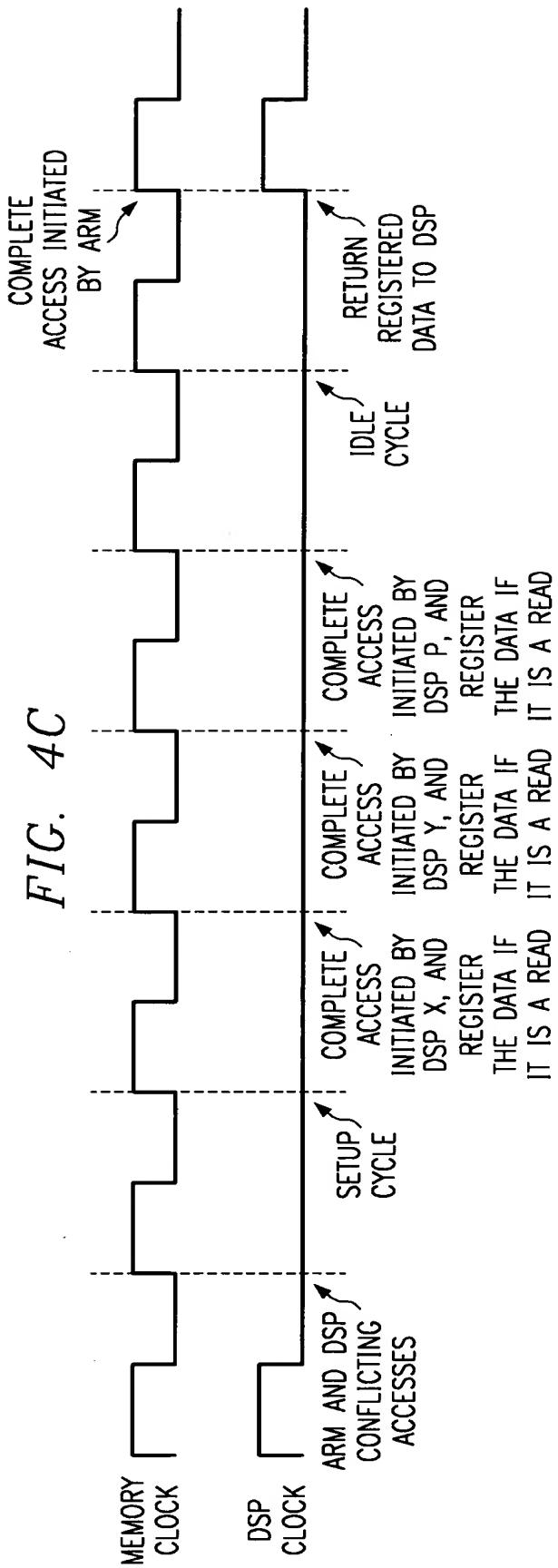
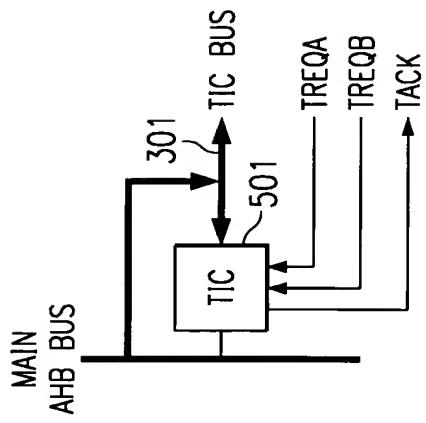


FIG. 5



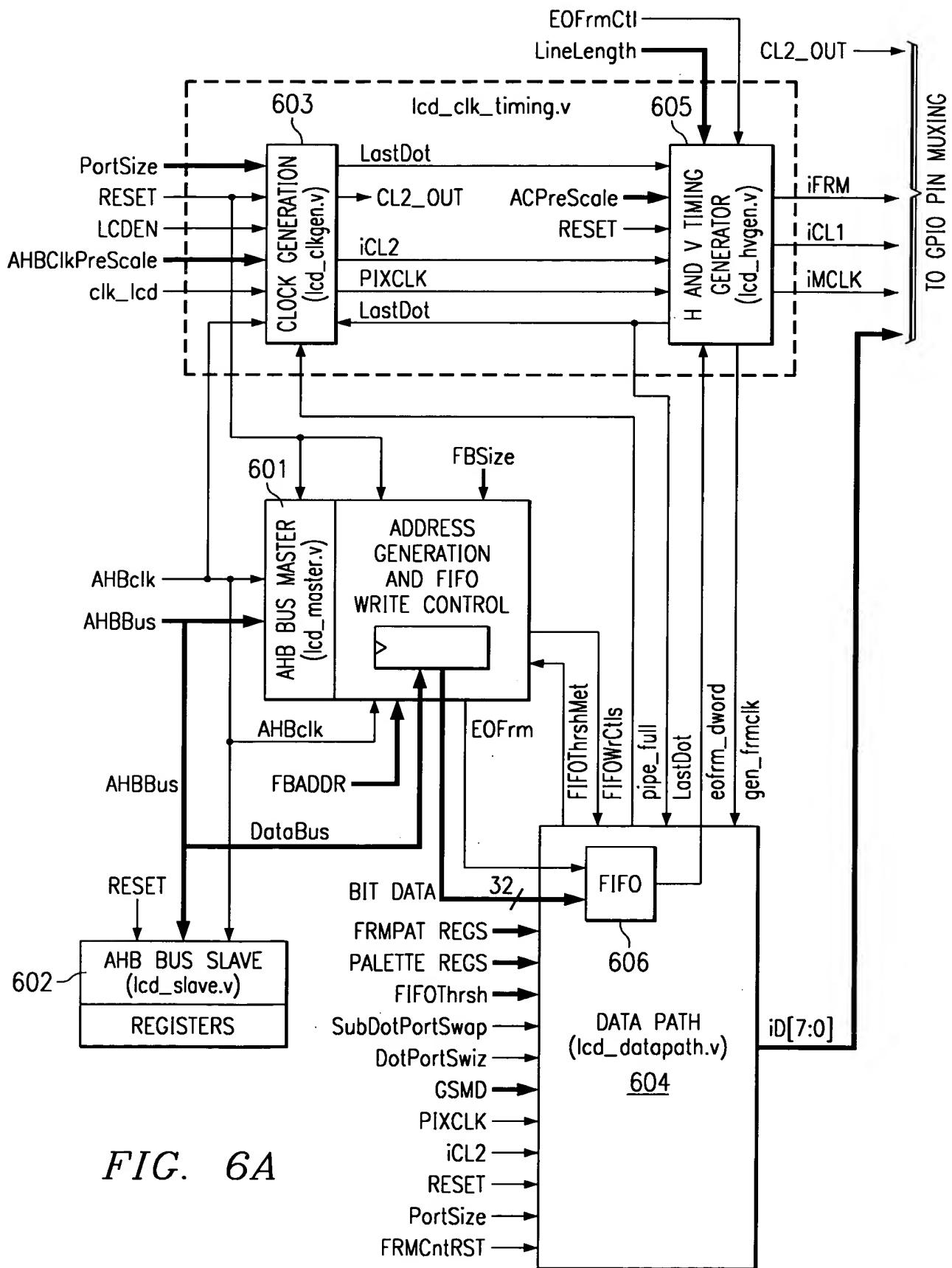


FIG. 6A

FIG. 6B

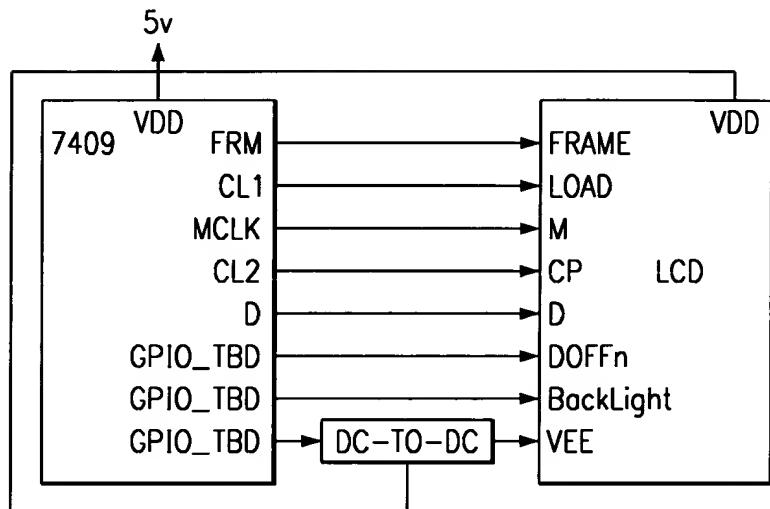
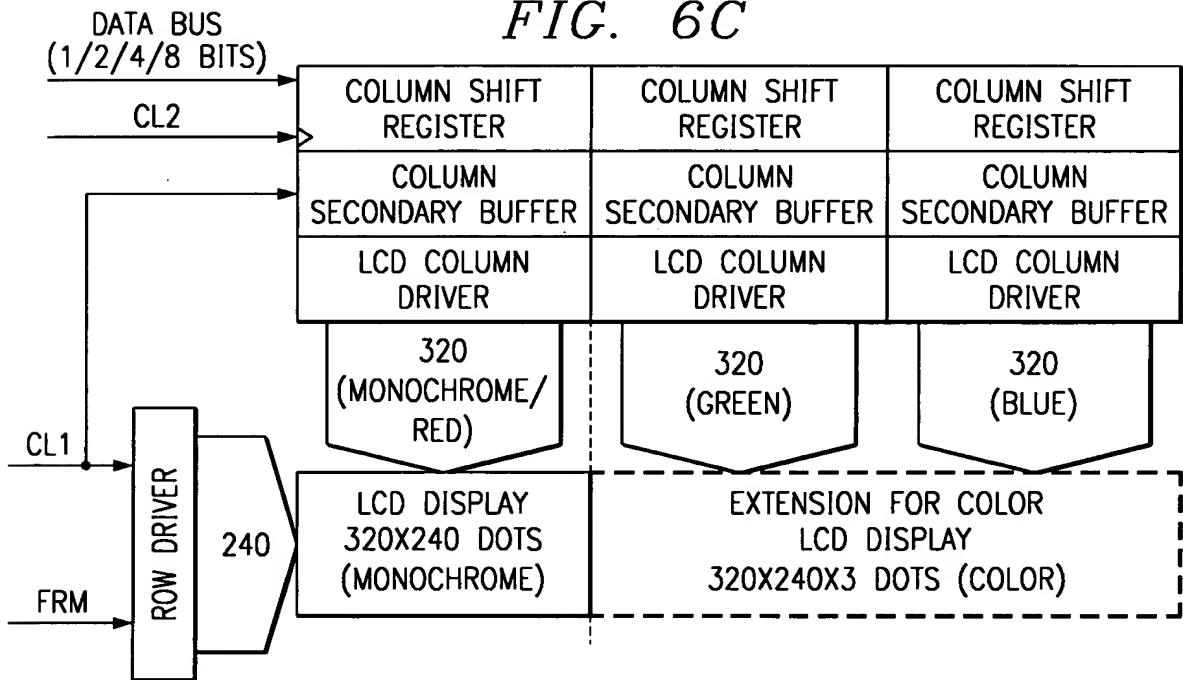


FIG. 6C



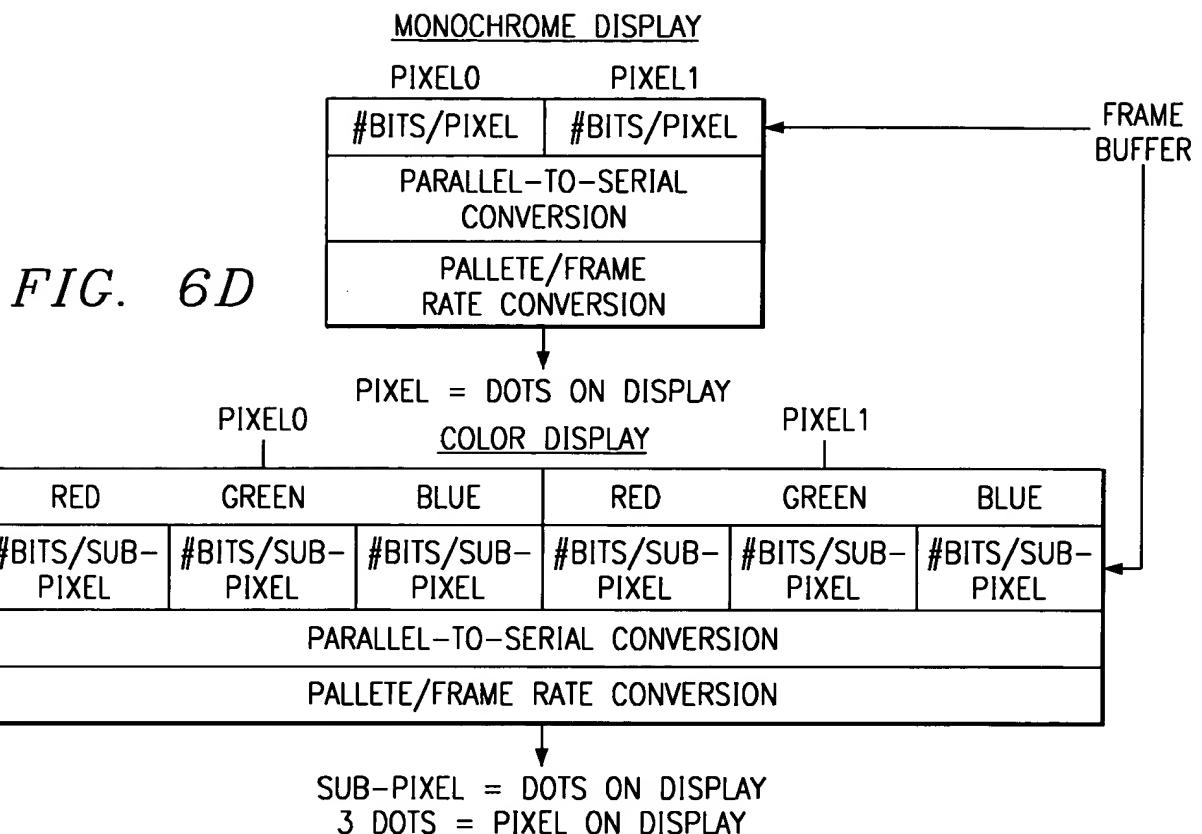


FIG. 6E

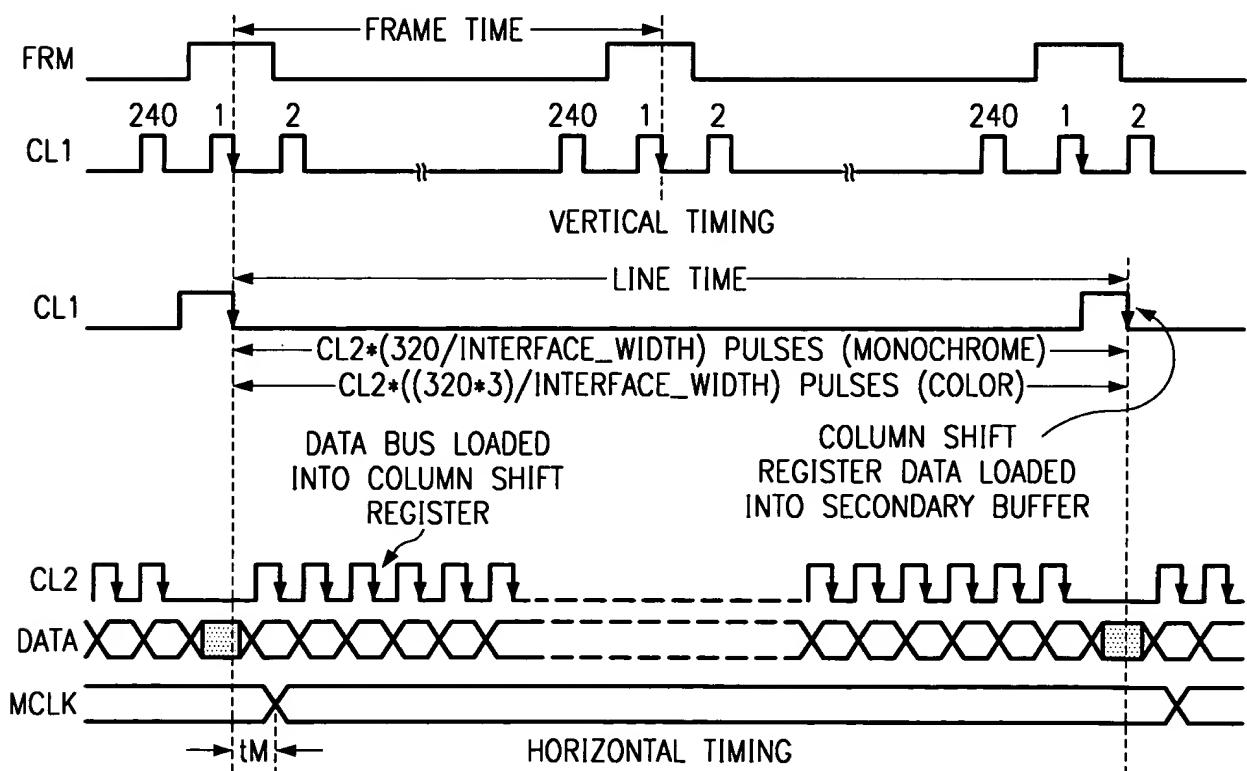


FIG. 6F

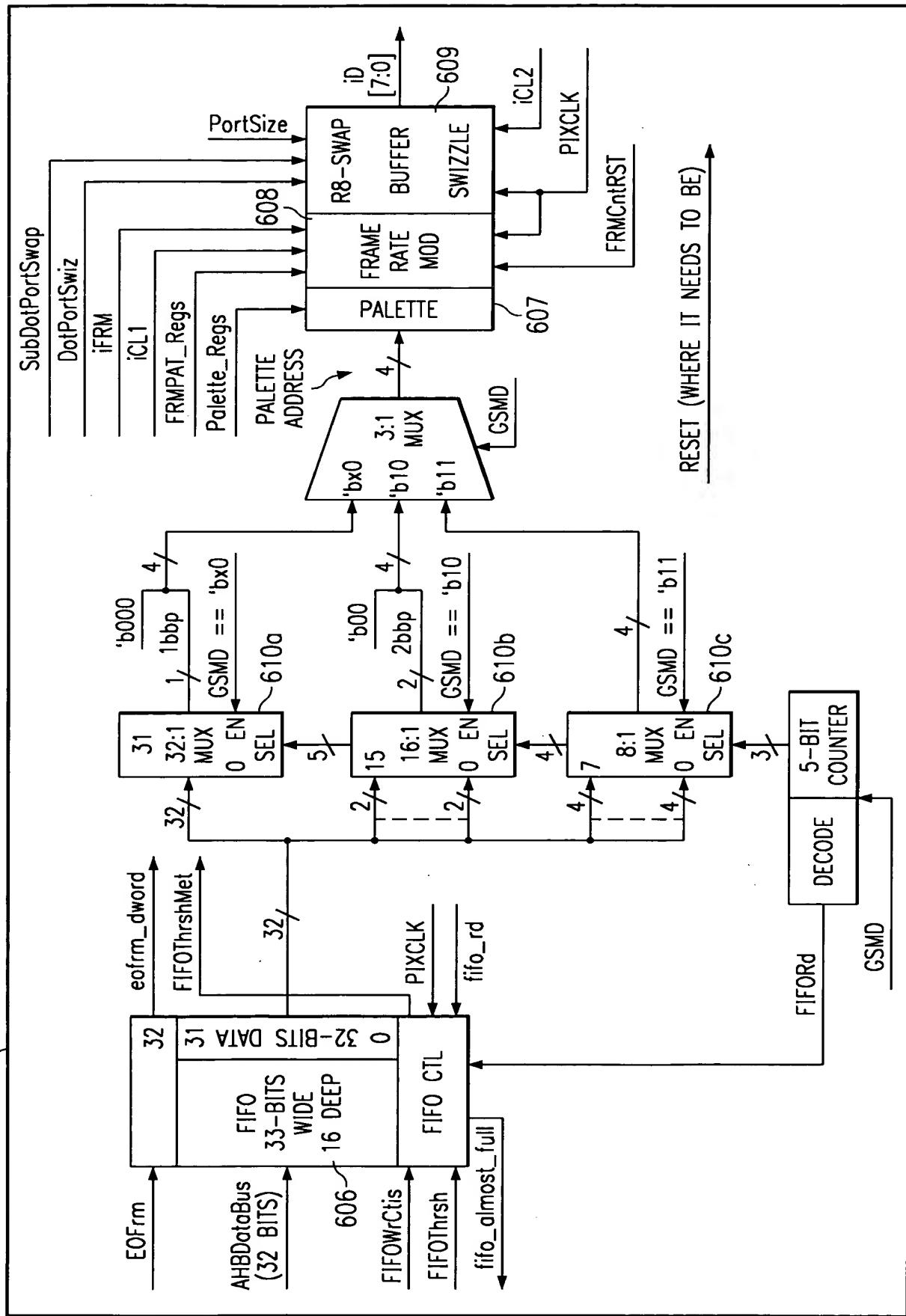
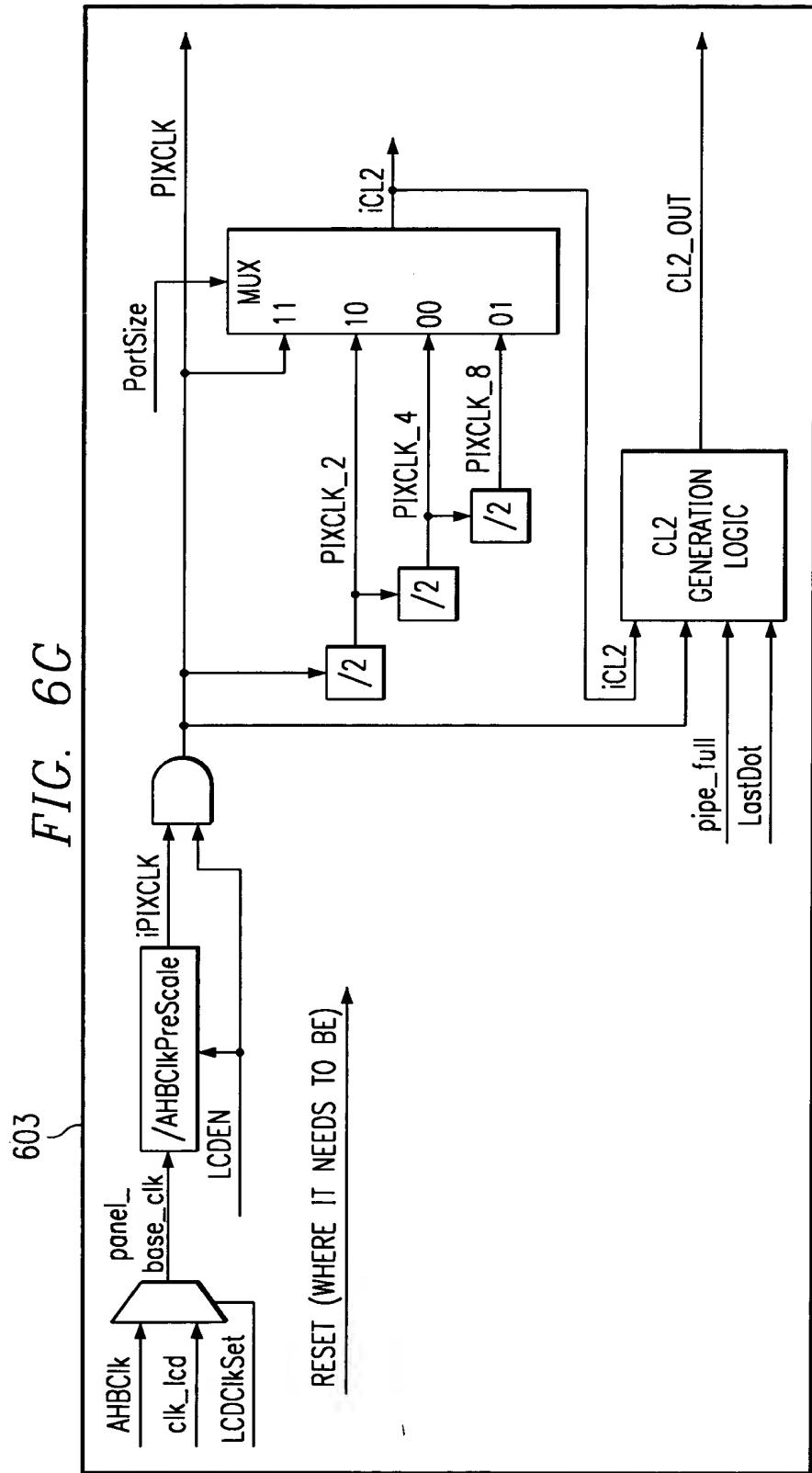


FIG. 6G



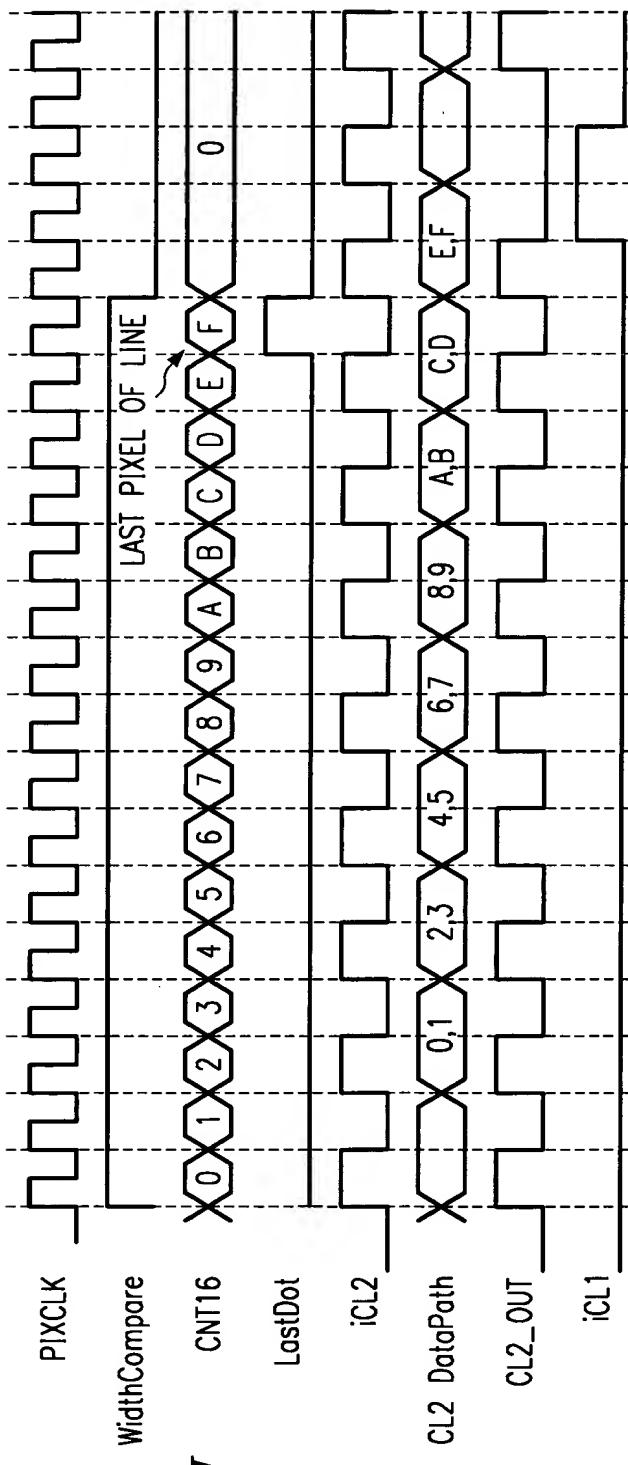


FIG. 6H

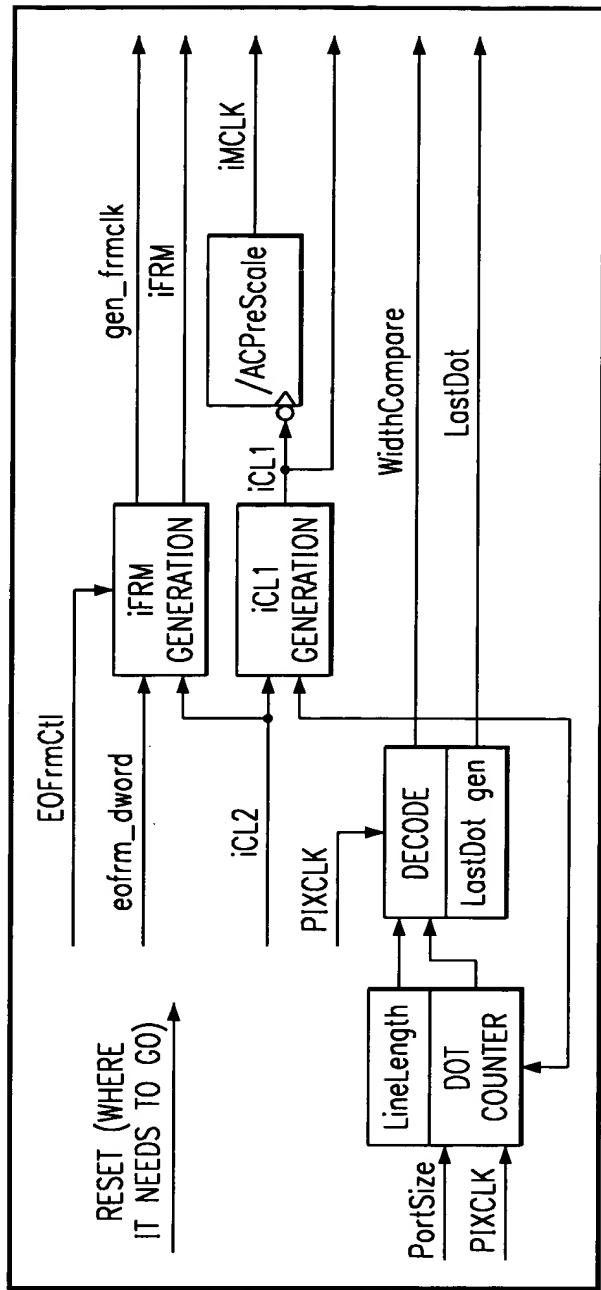


FIG. 61

FIG. 6J

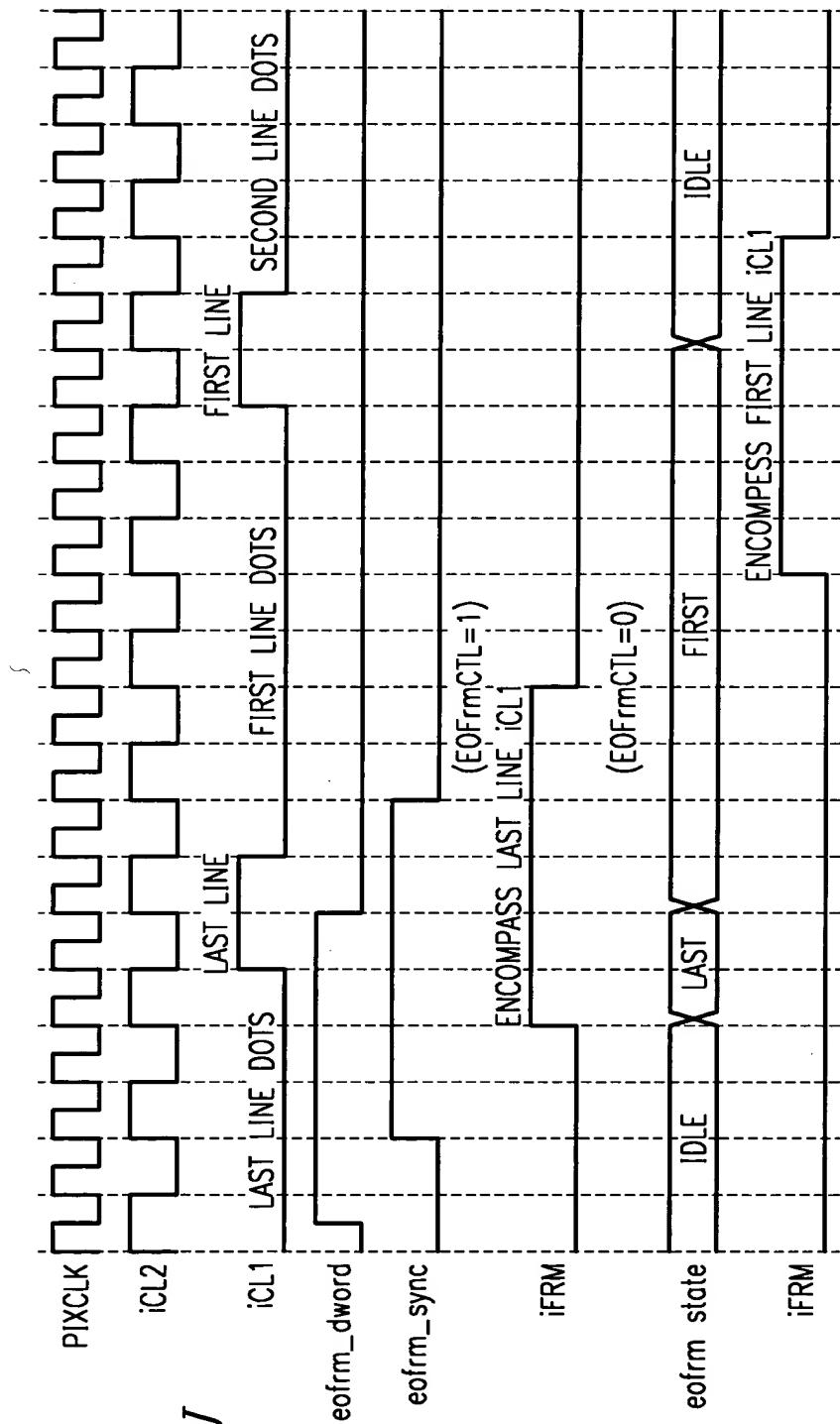


FIG. 6K

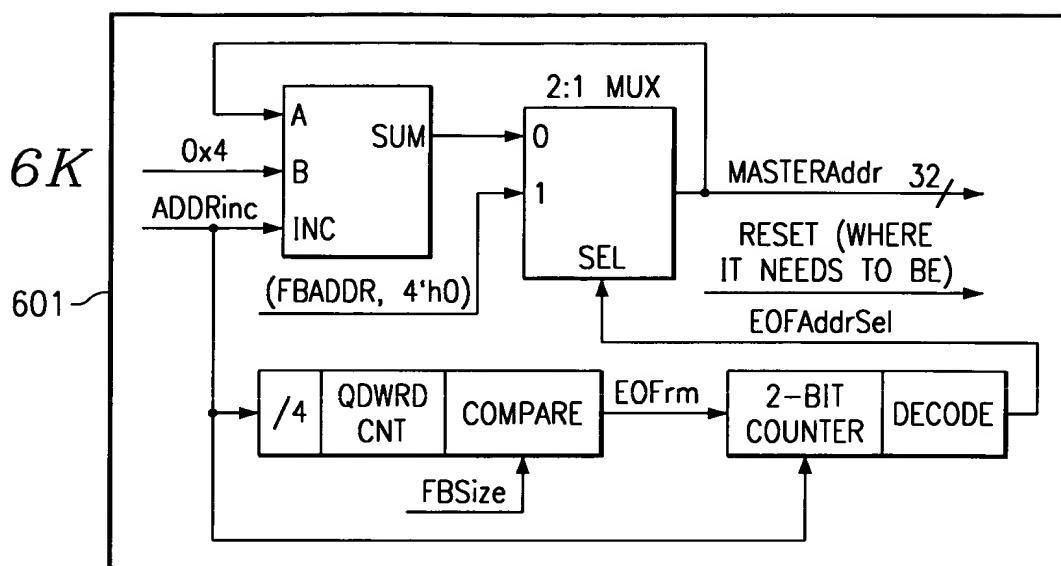


FIG. 17

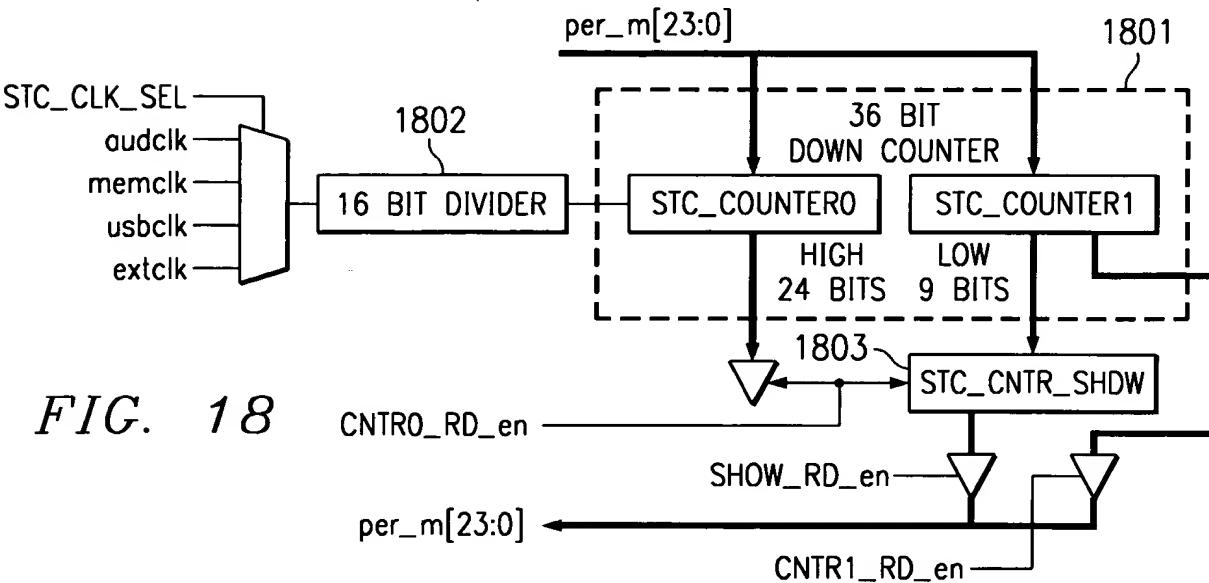
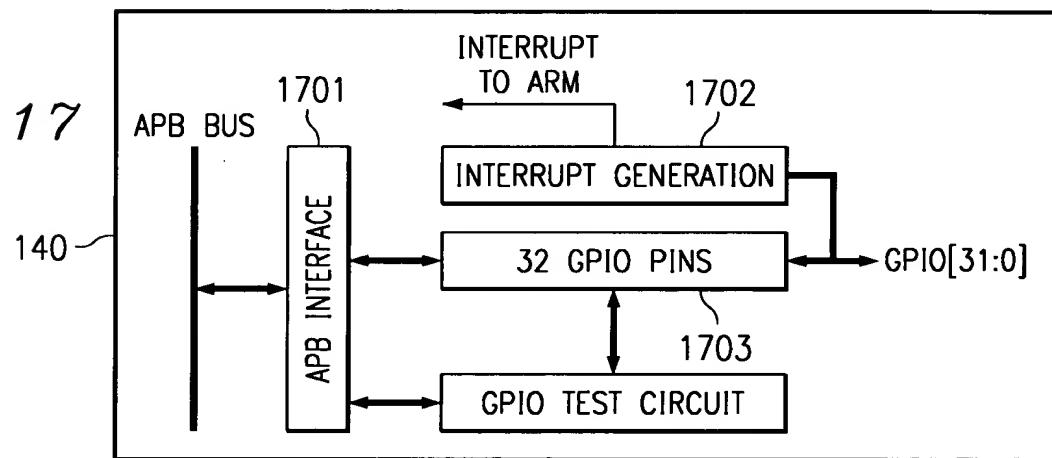


FIG. 6L

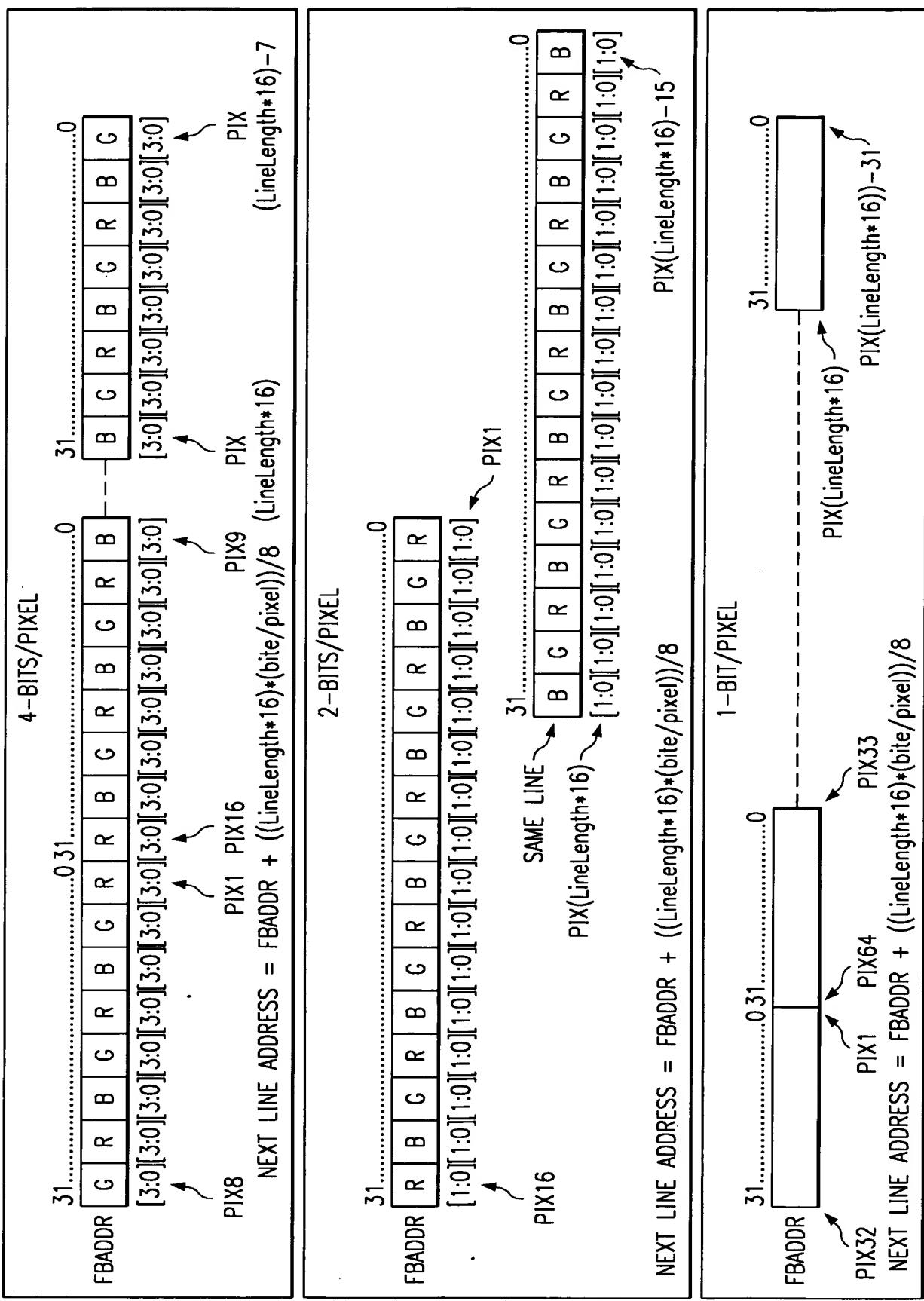
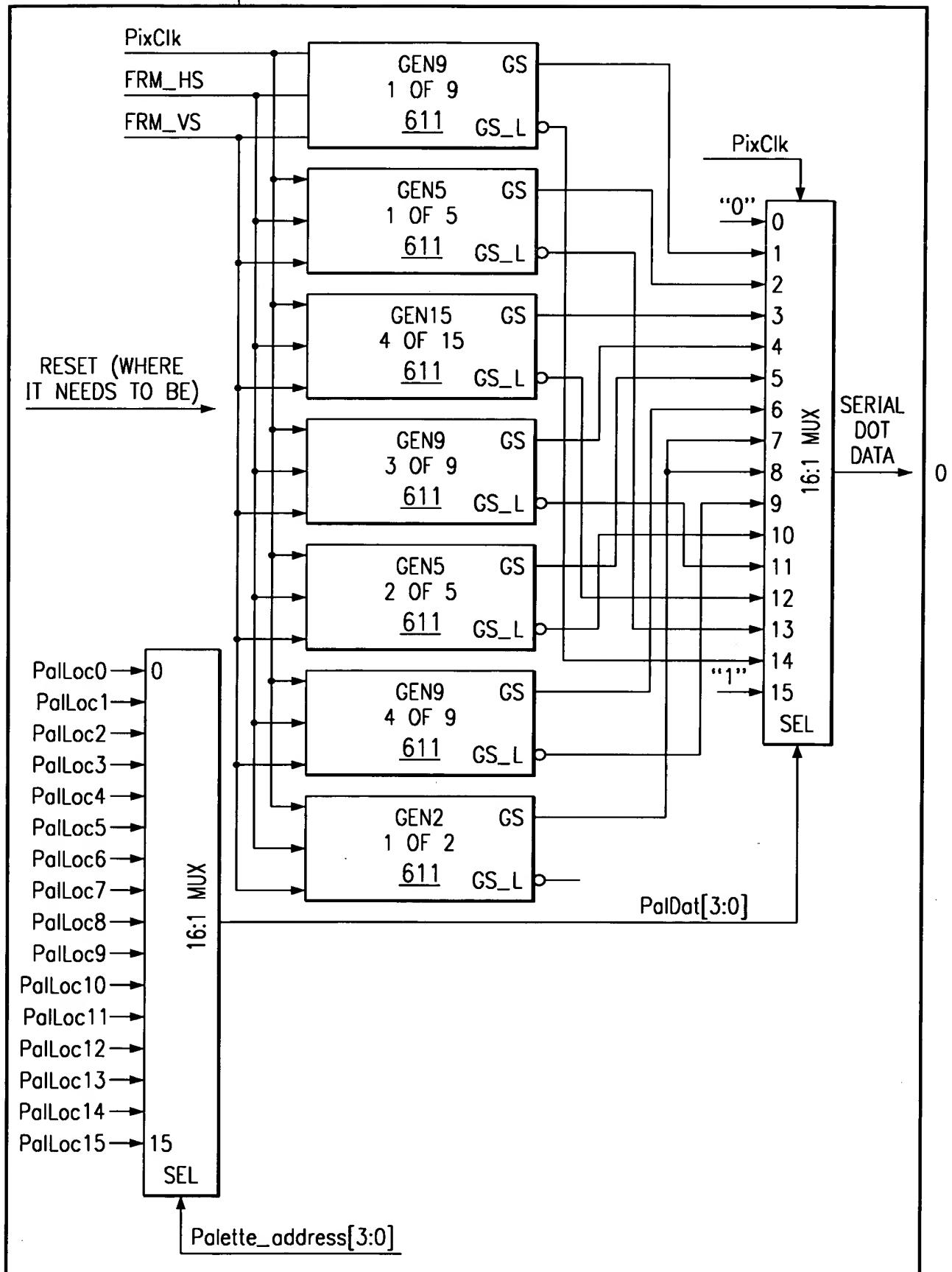
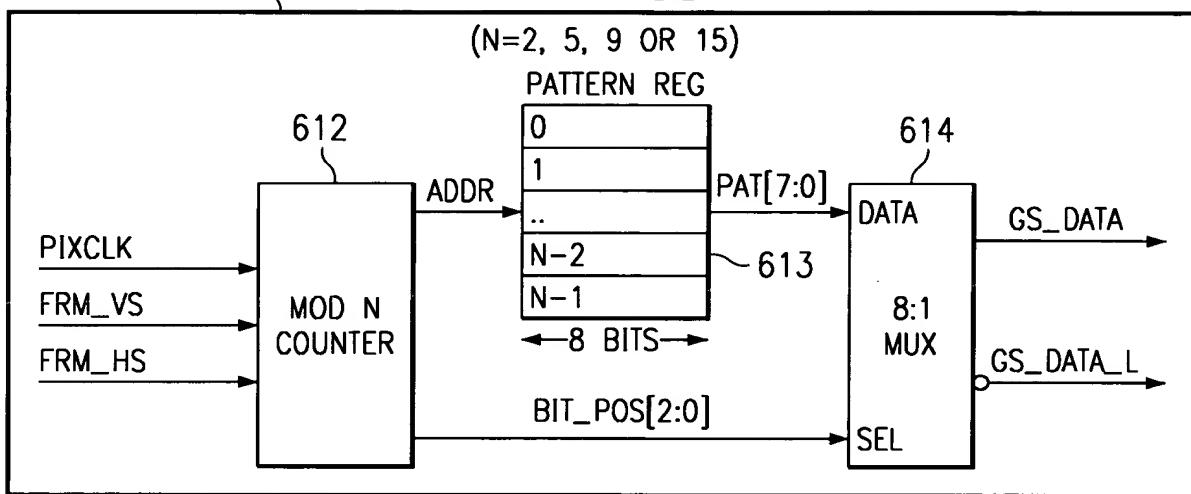


FIG. 6M



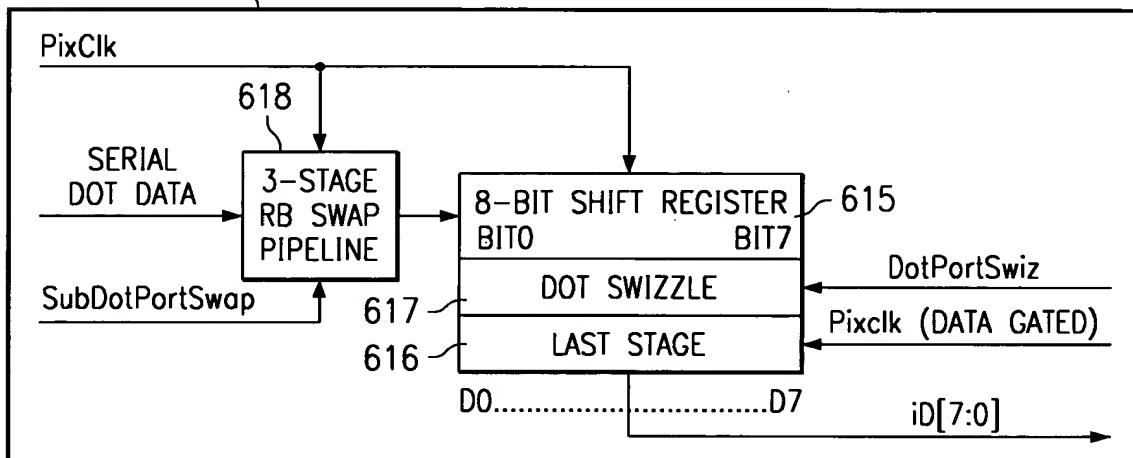
611

FIG. 6N



609

FIG. 6O



TIME (FROM THE SHIFT REGISTER POINT OF VIEW)

FIG. 6P

SubDotPortSwap=0

{BnGnRn}....{B3G3R3}{B2G2R2}{B1G1R1}{B0G0R0}

SubDotPortSwap=1

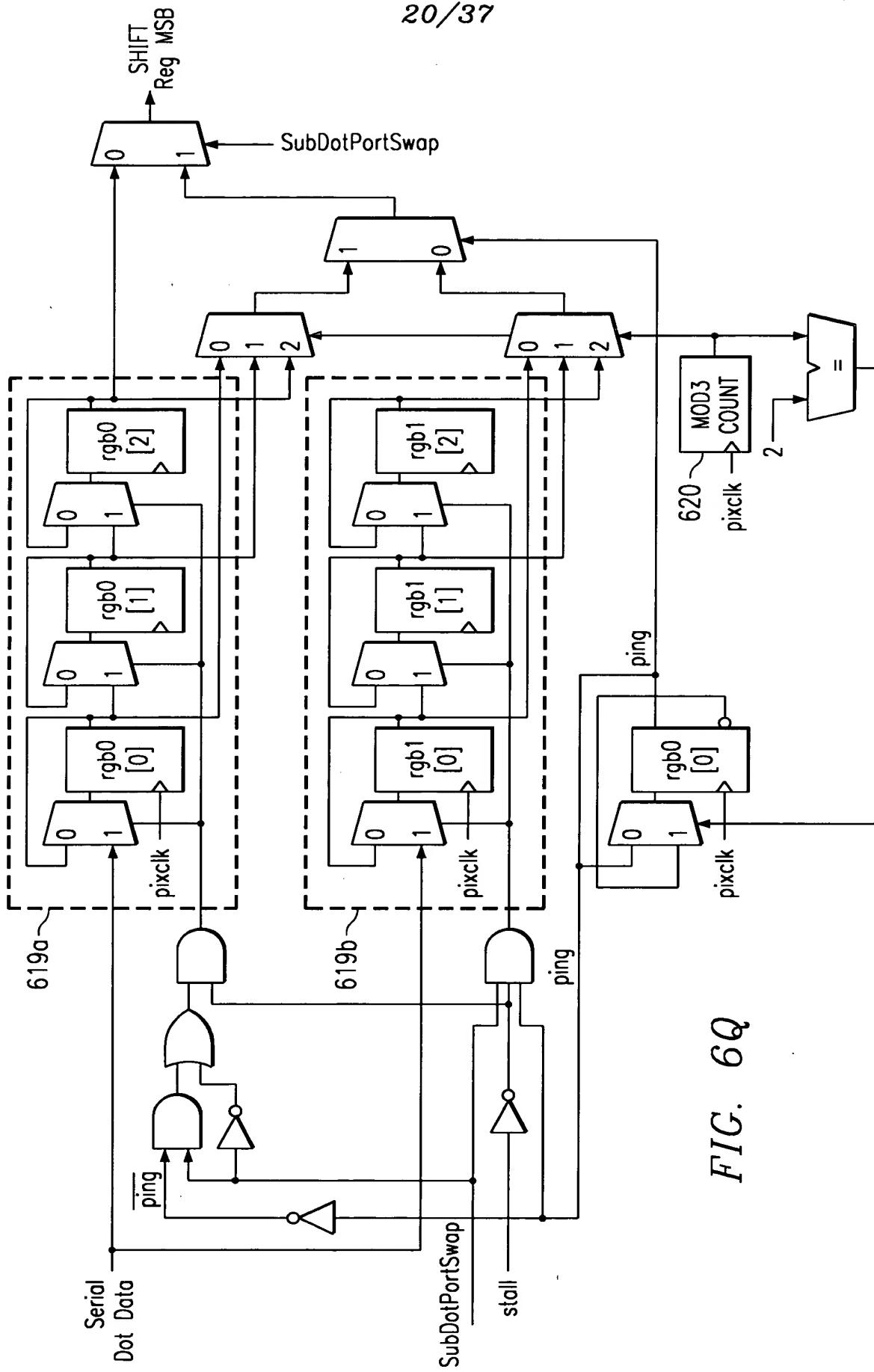


FIG. 6Q

FIG. 6R

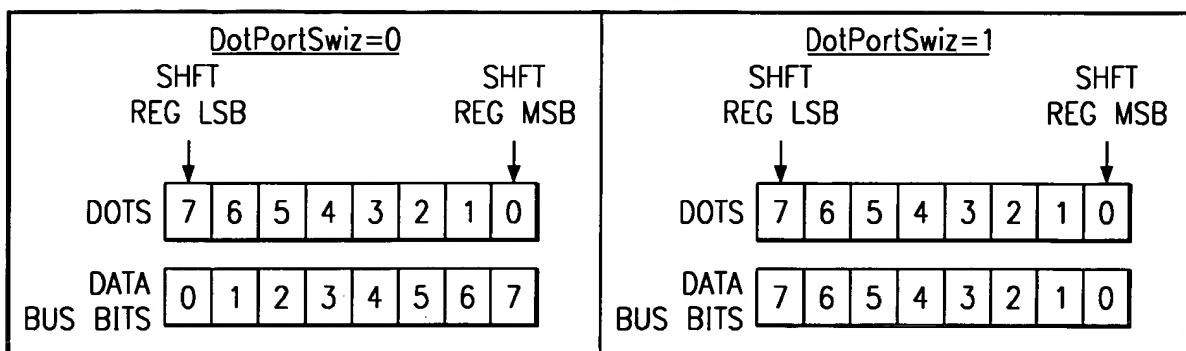


FIG. 6S

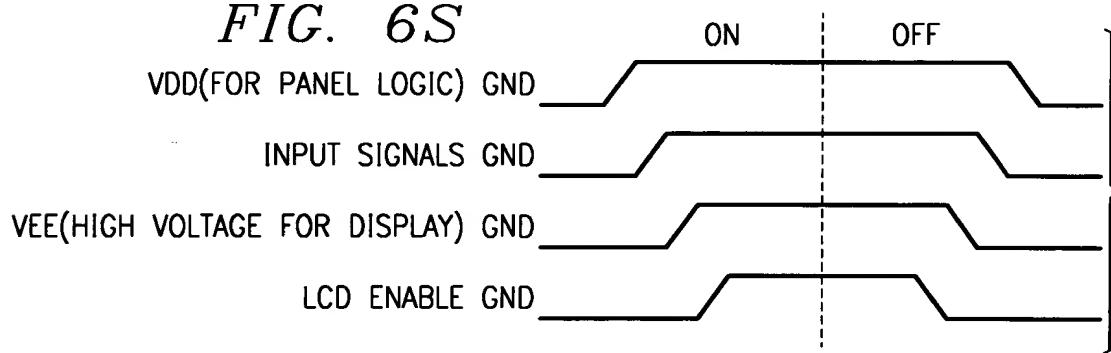


FIG. 7A

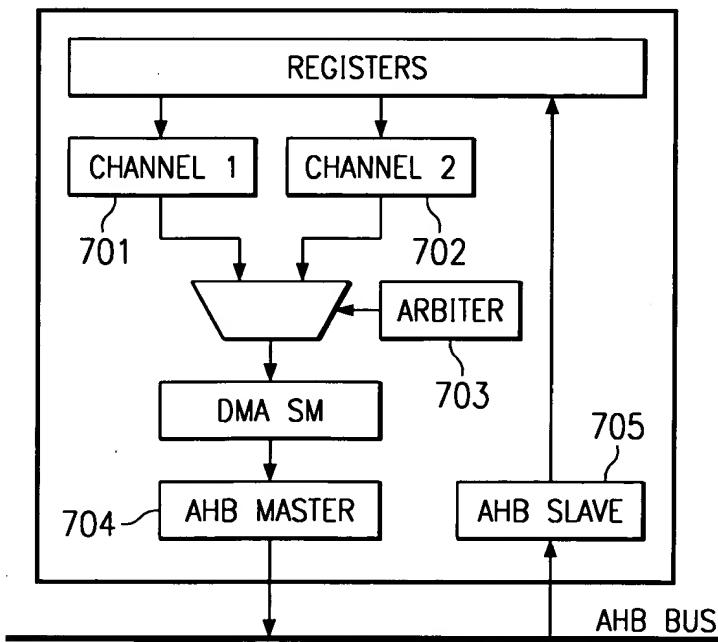


FIG. 7B 22/37

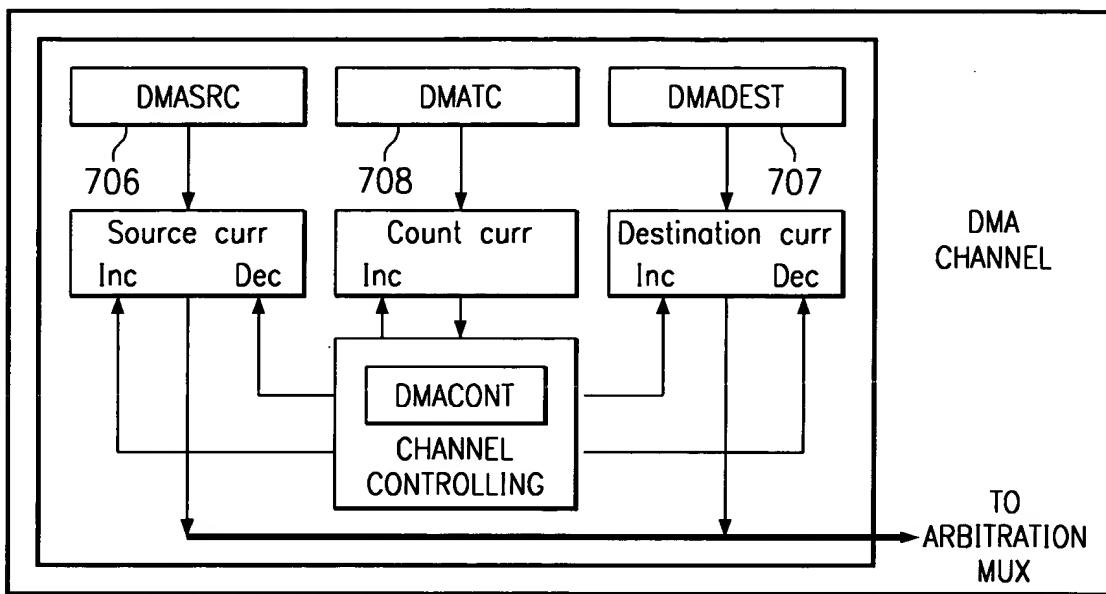
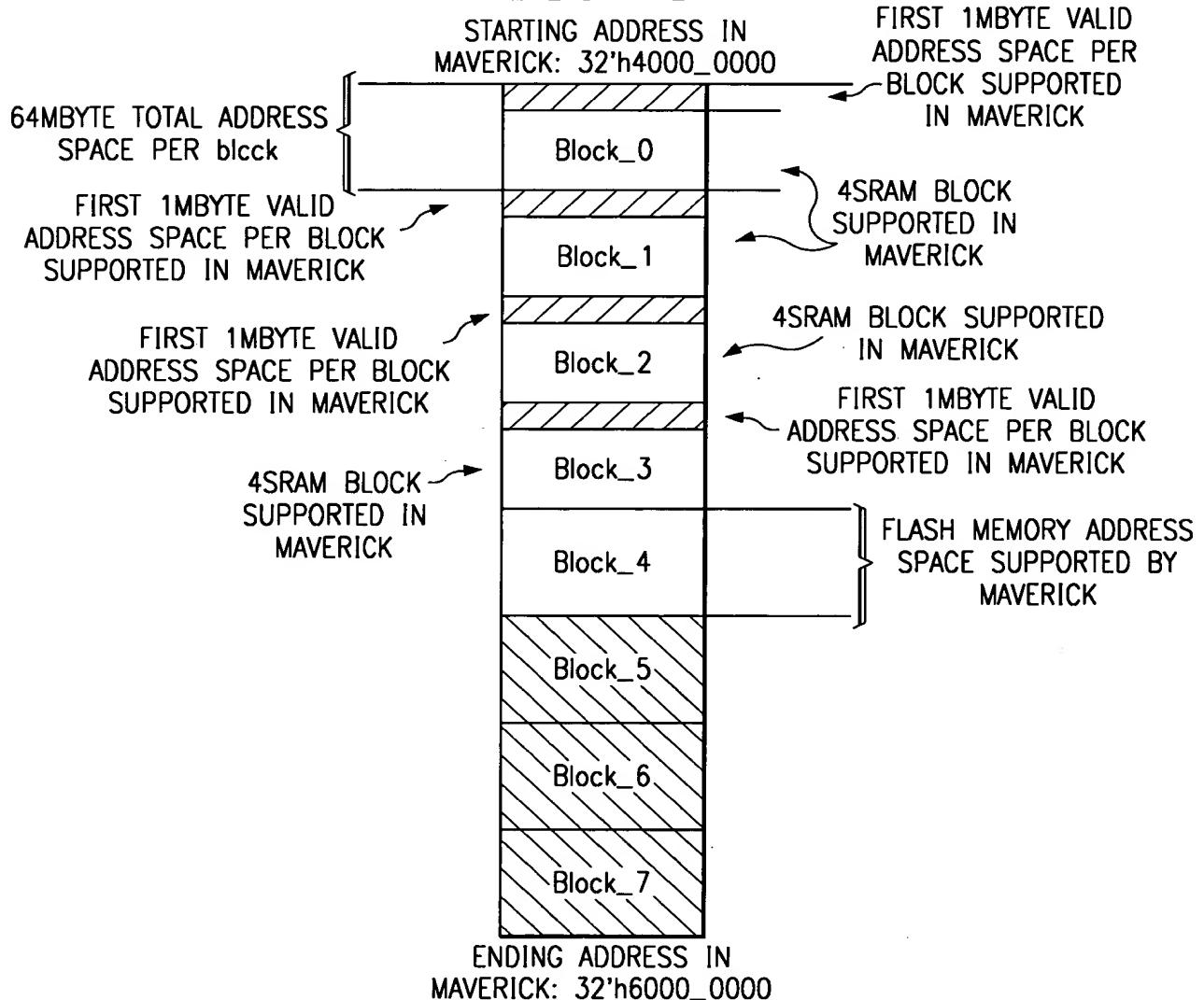
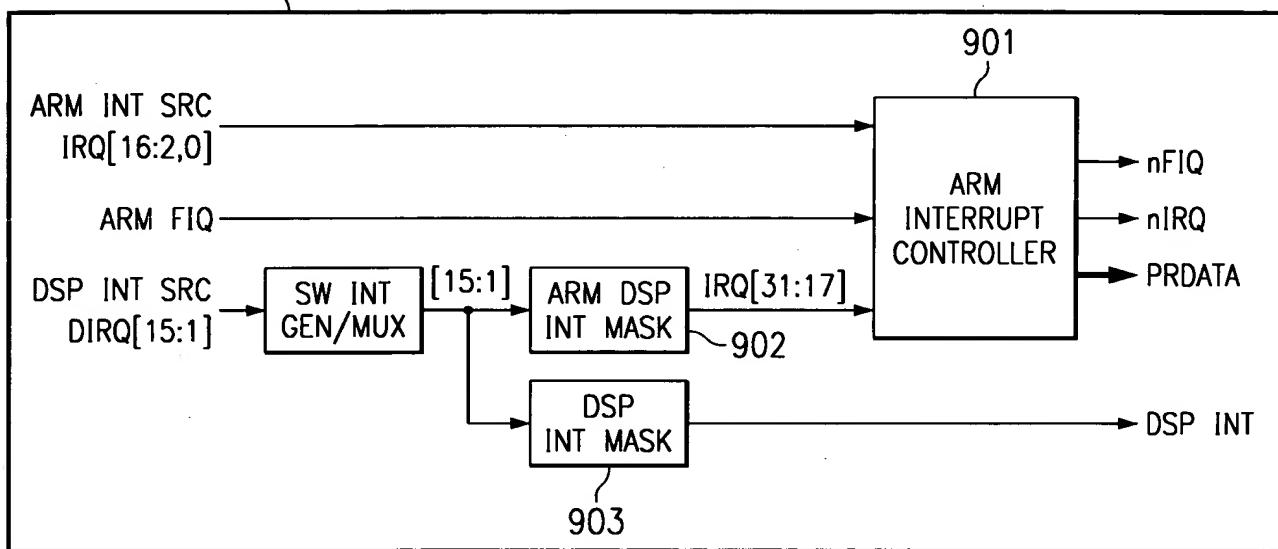


FIG. 8



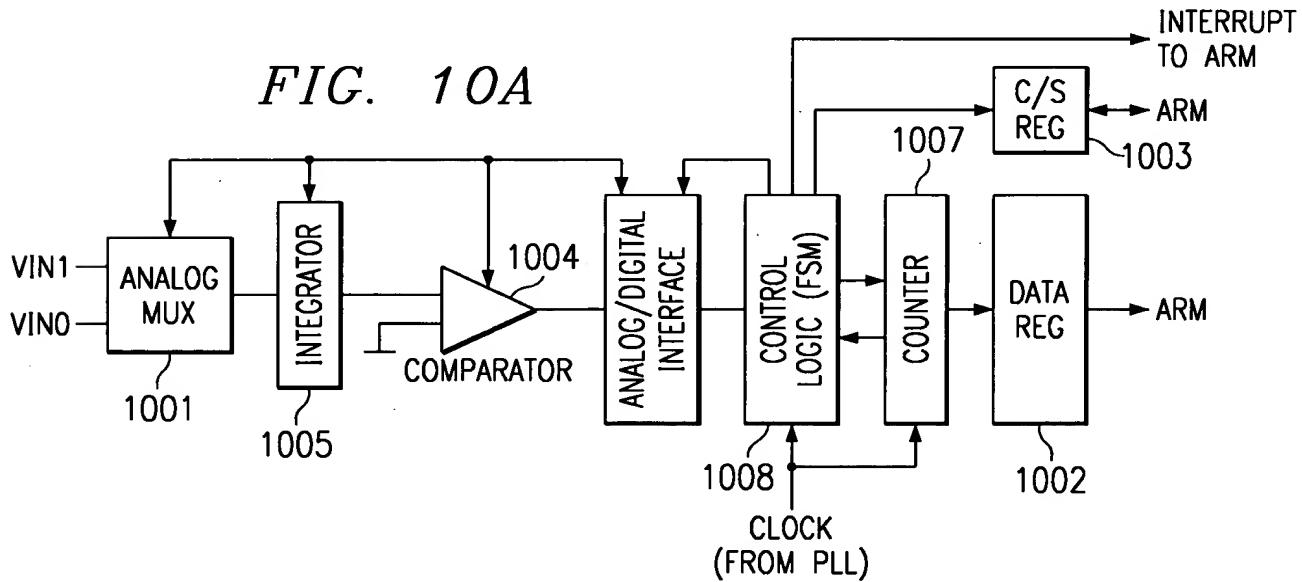
126

FIG. 9



126 126 126 126 126 126 126 126 126 126 126 126 126 126 126 126

FIG. 10A



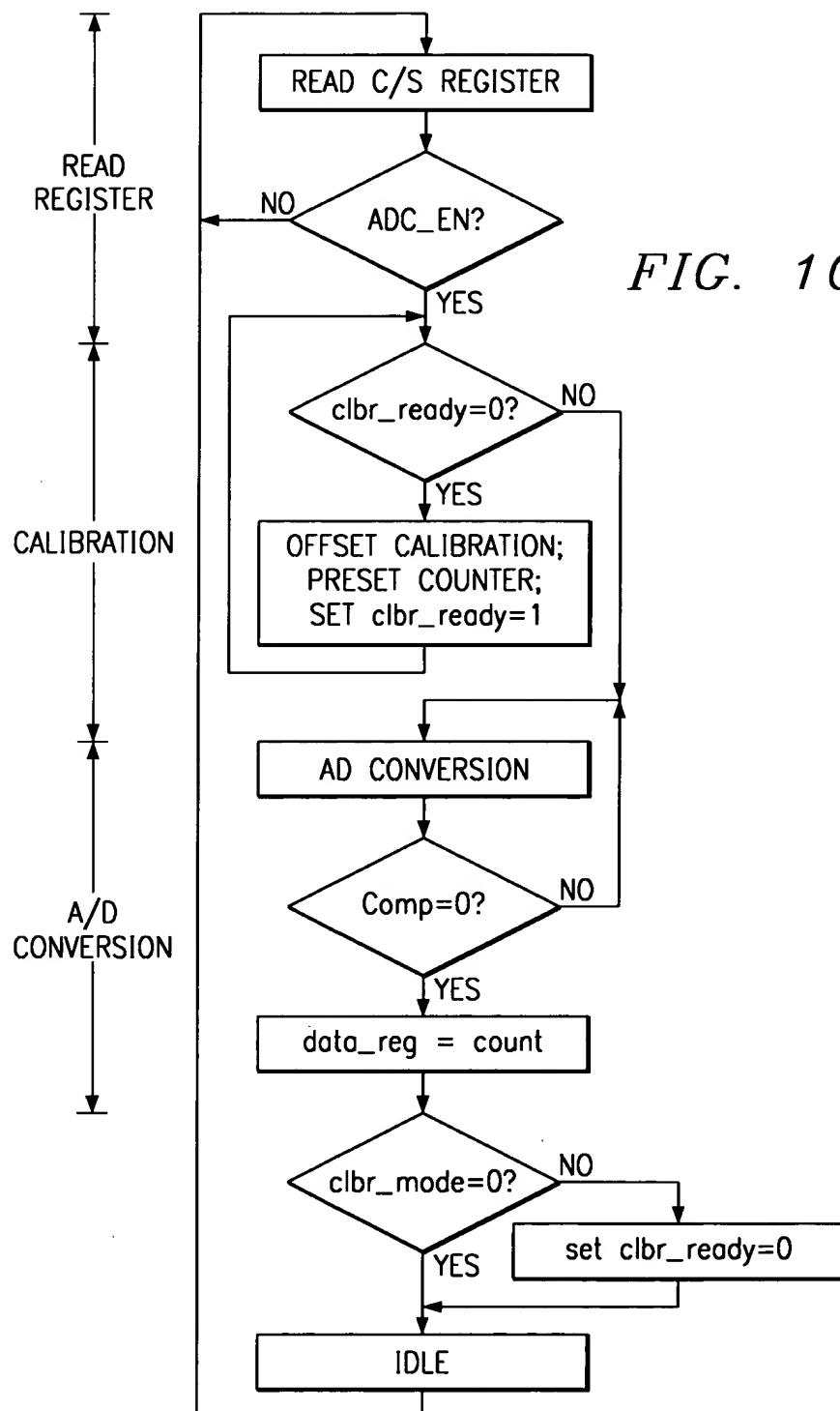


FIG. 10B

FIG. 11A

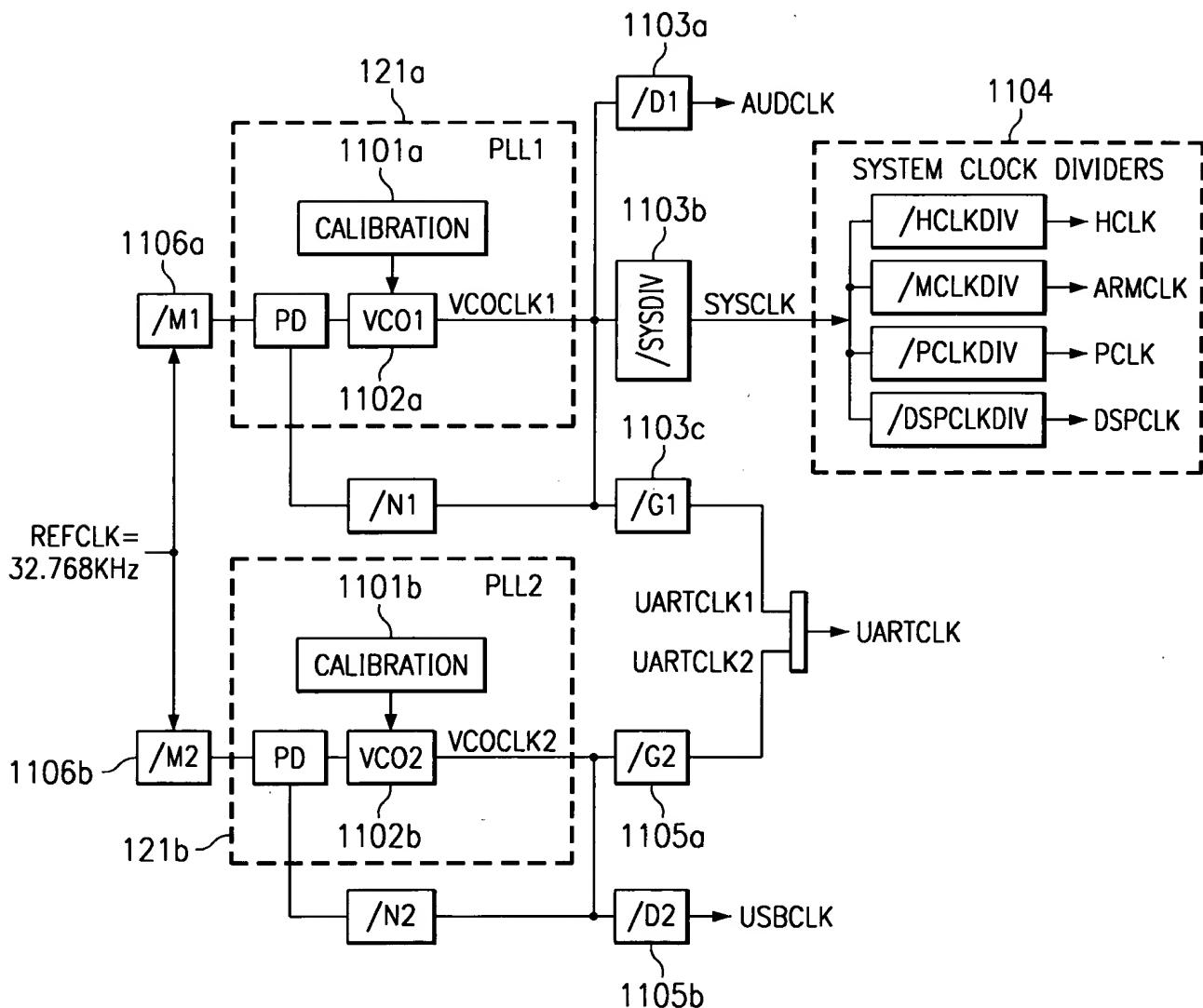


FIG. 11B

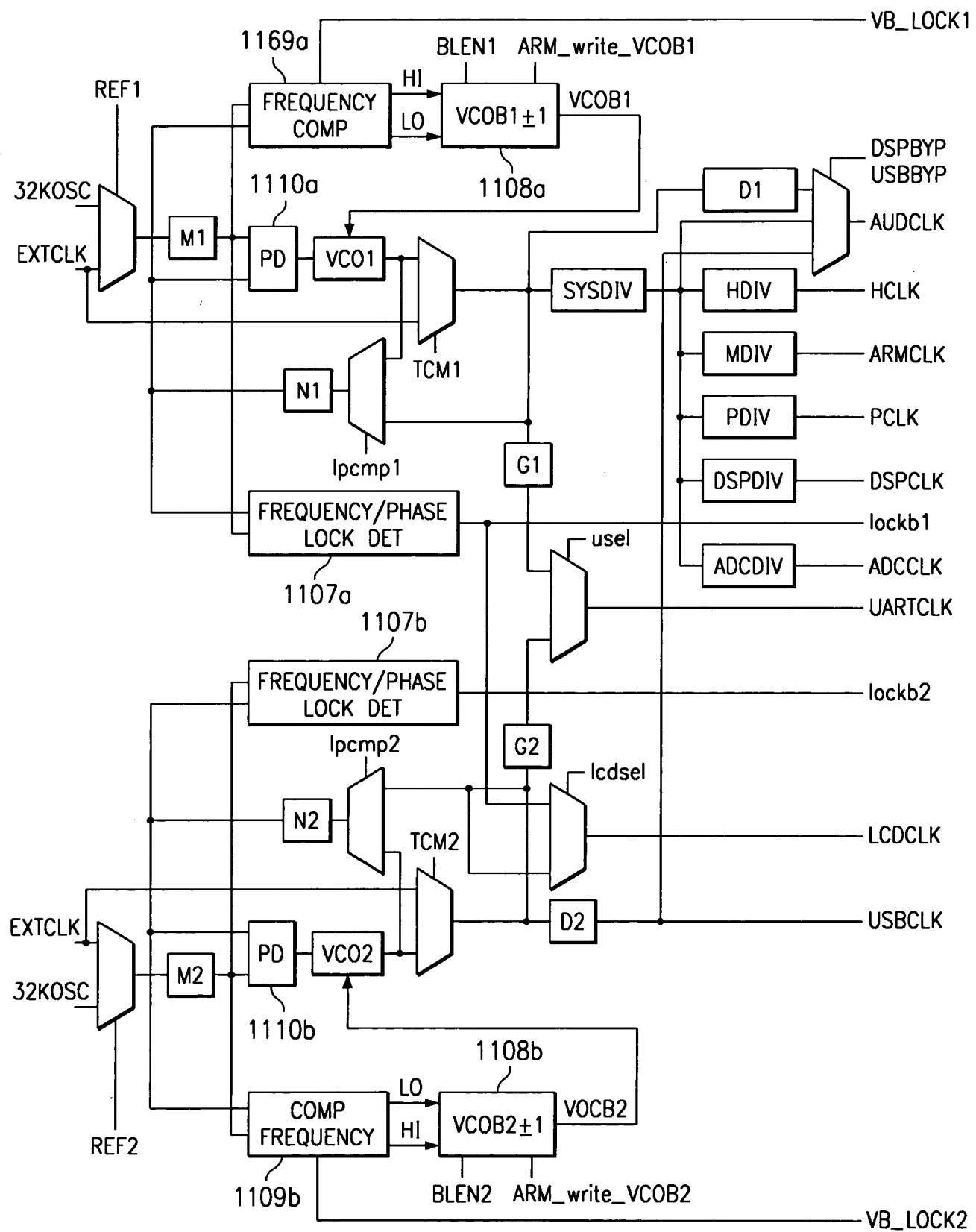


FIG. 11C

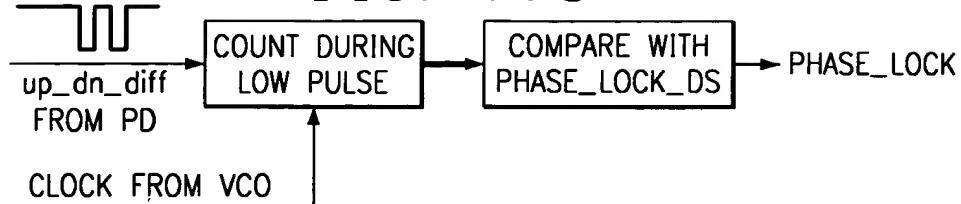


FIG. 11D

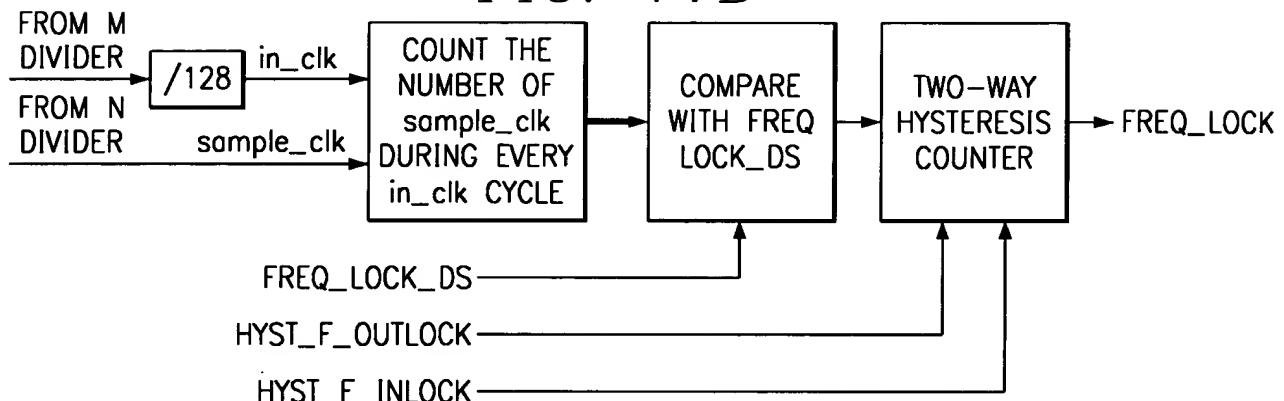


FIG. 12A

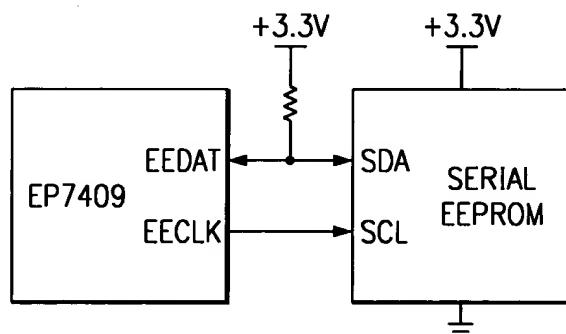
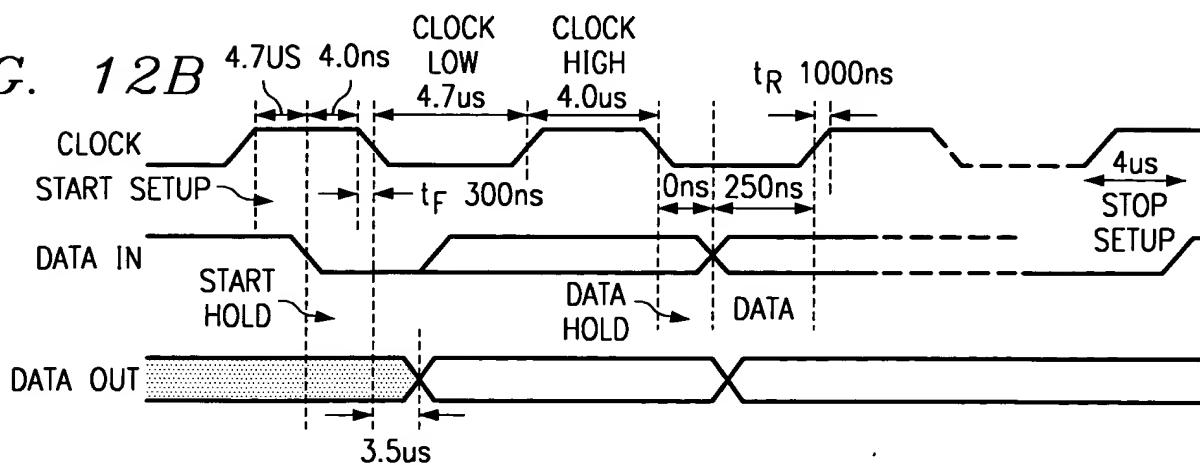
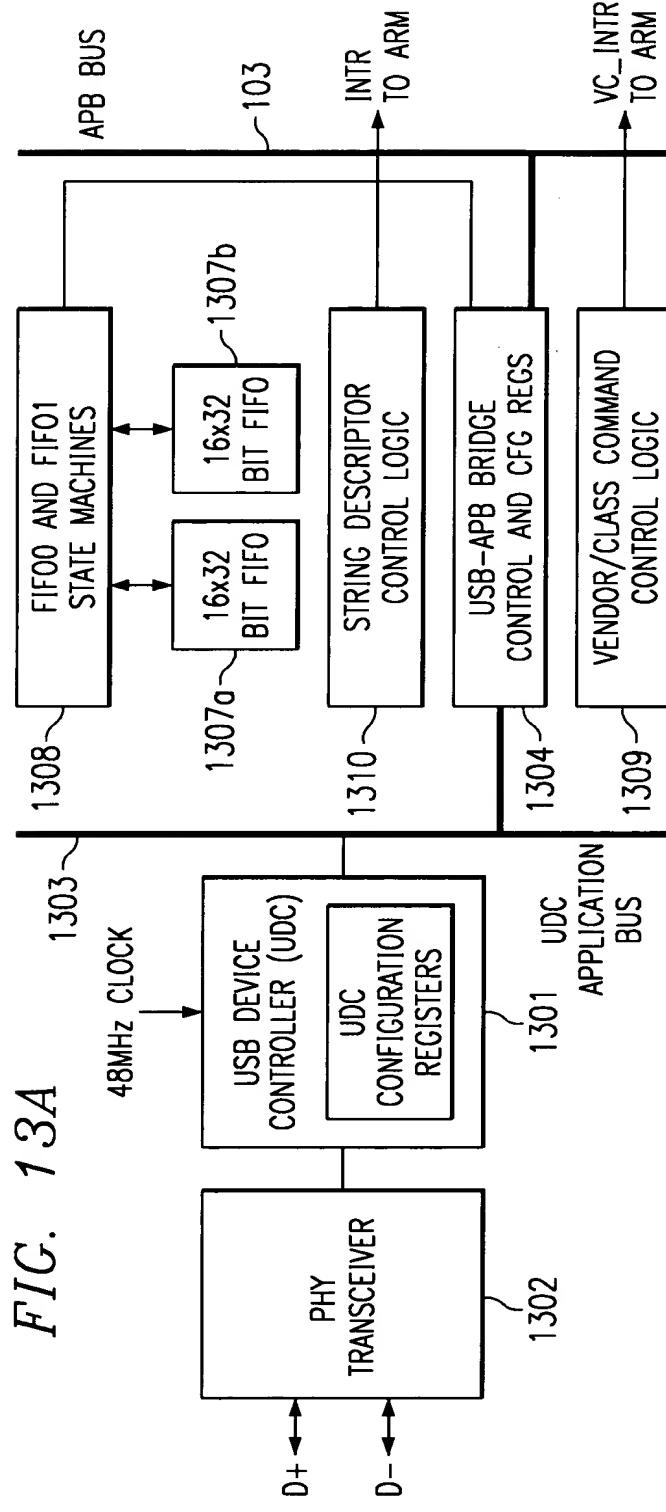
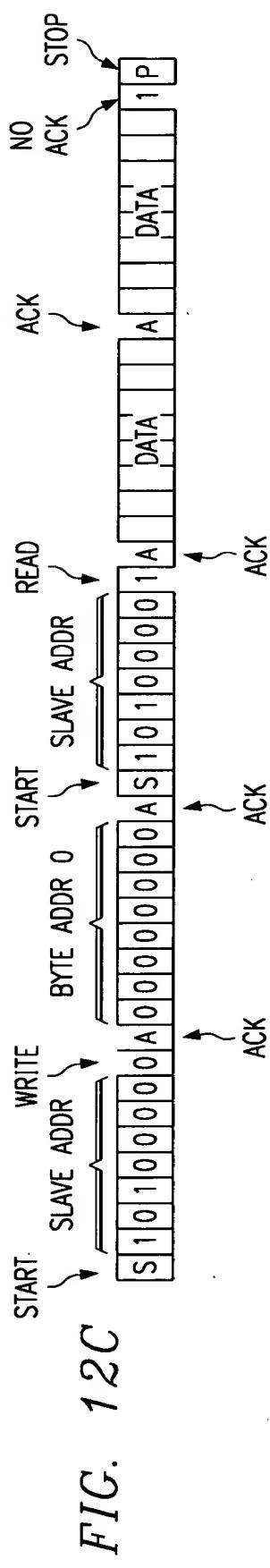


FIG. 12B





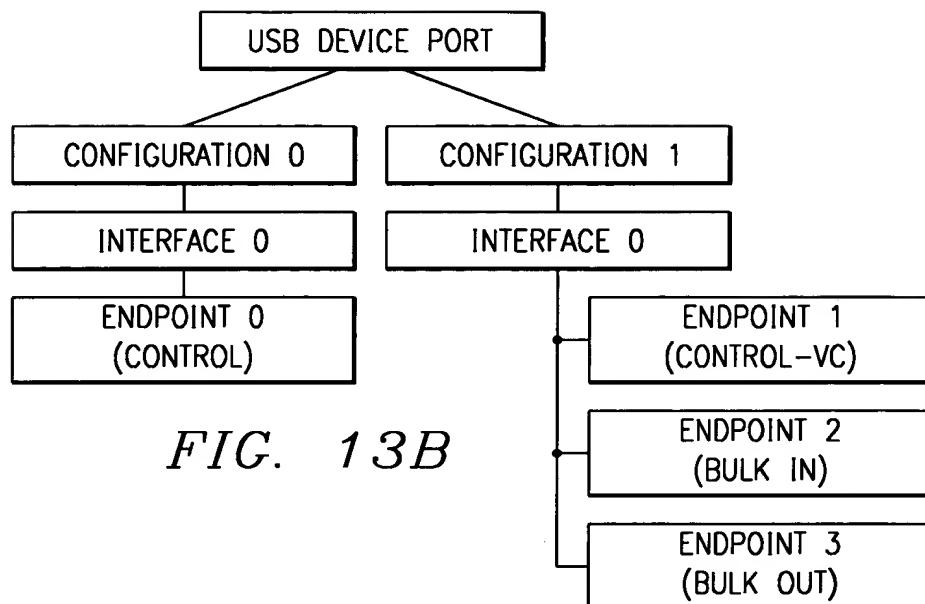


FIG. 13B

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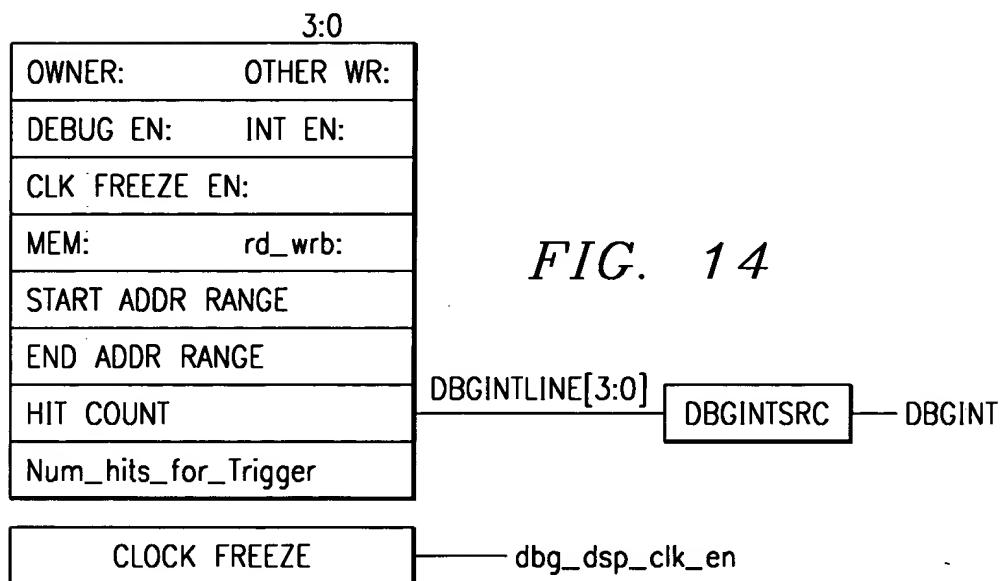


FIG. 14

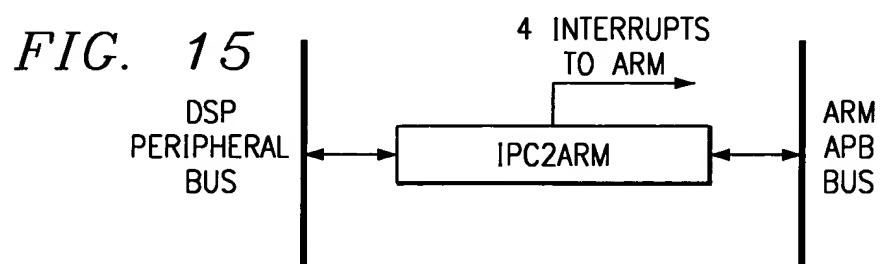


FIG. 15

FIG. 16A

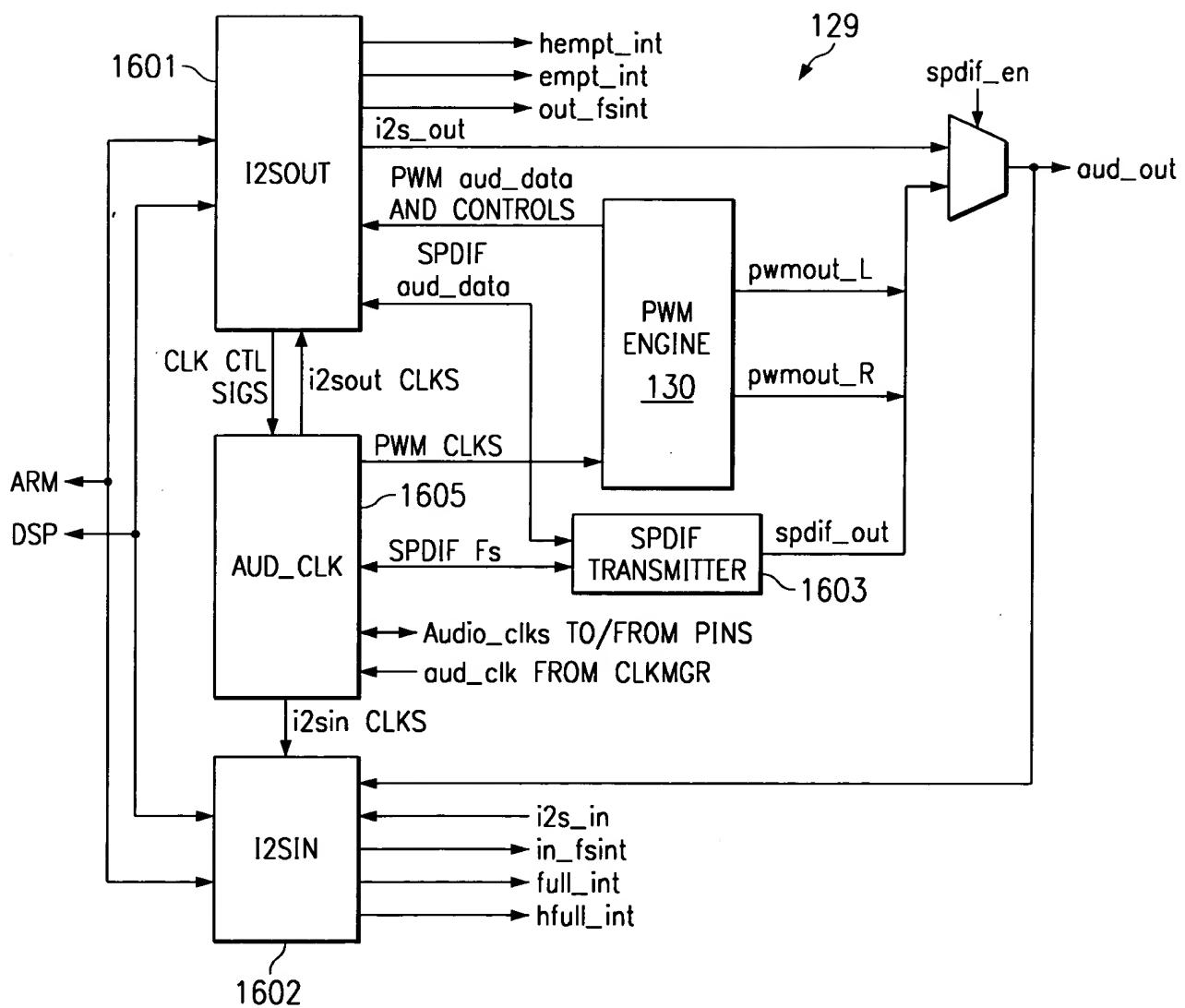


FIG. 16B

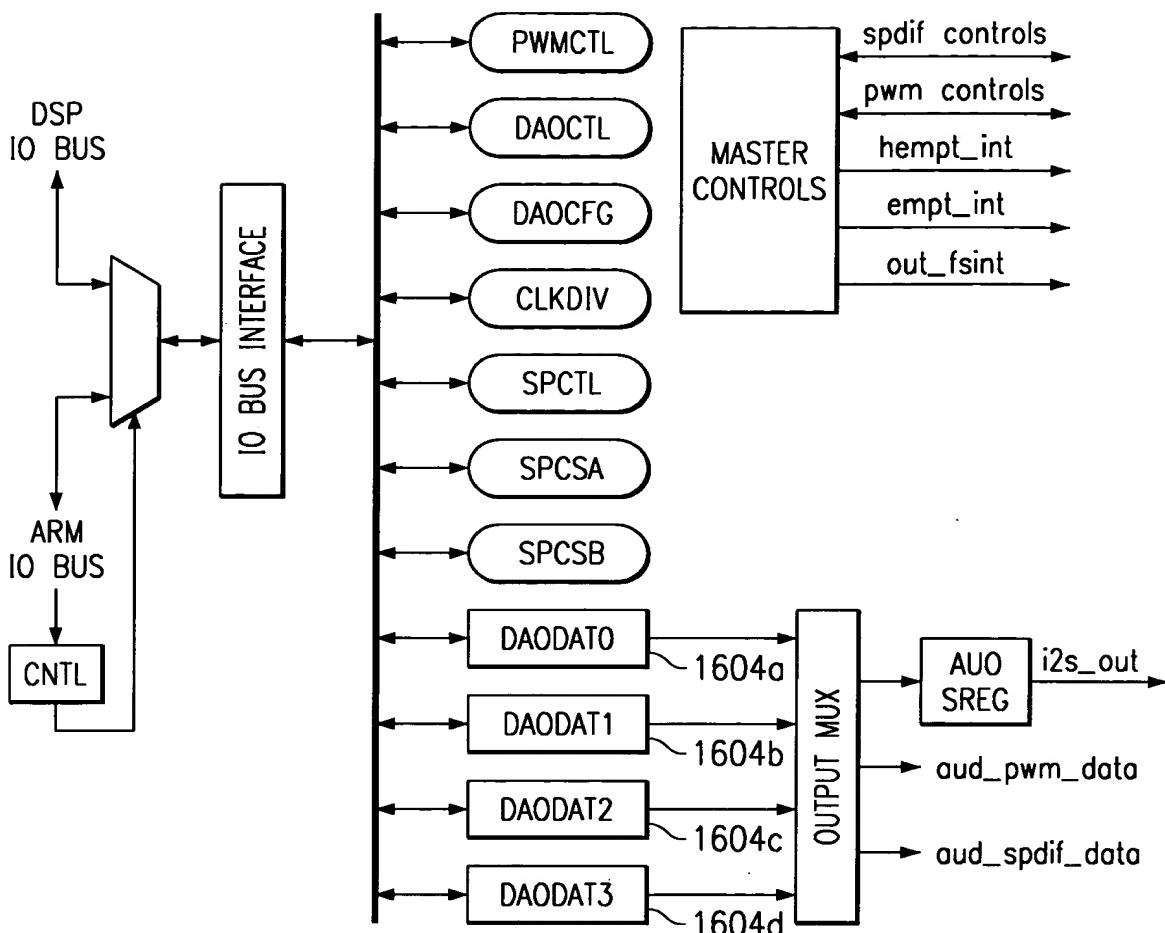
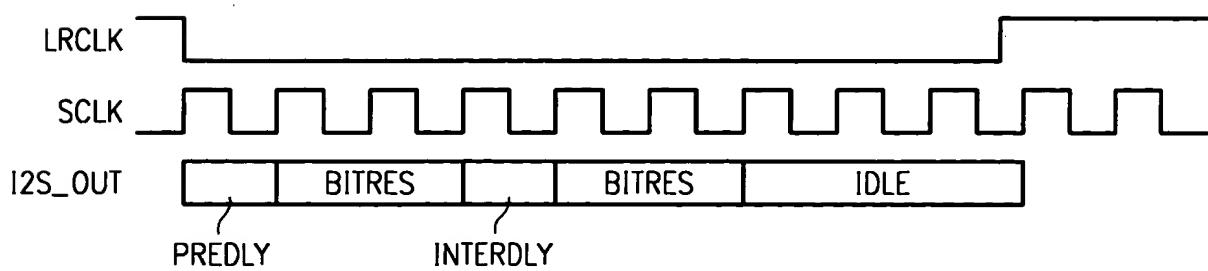


FIG. 16C



1602

FIG. 16D

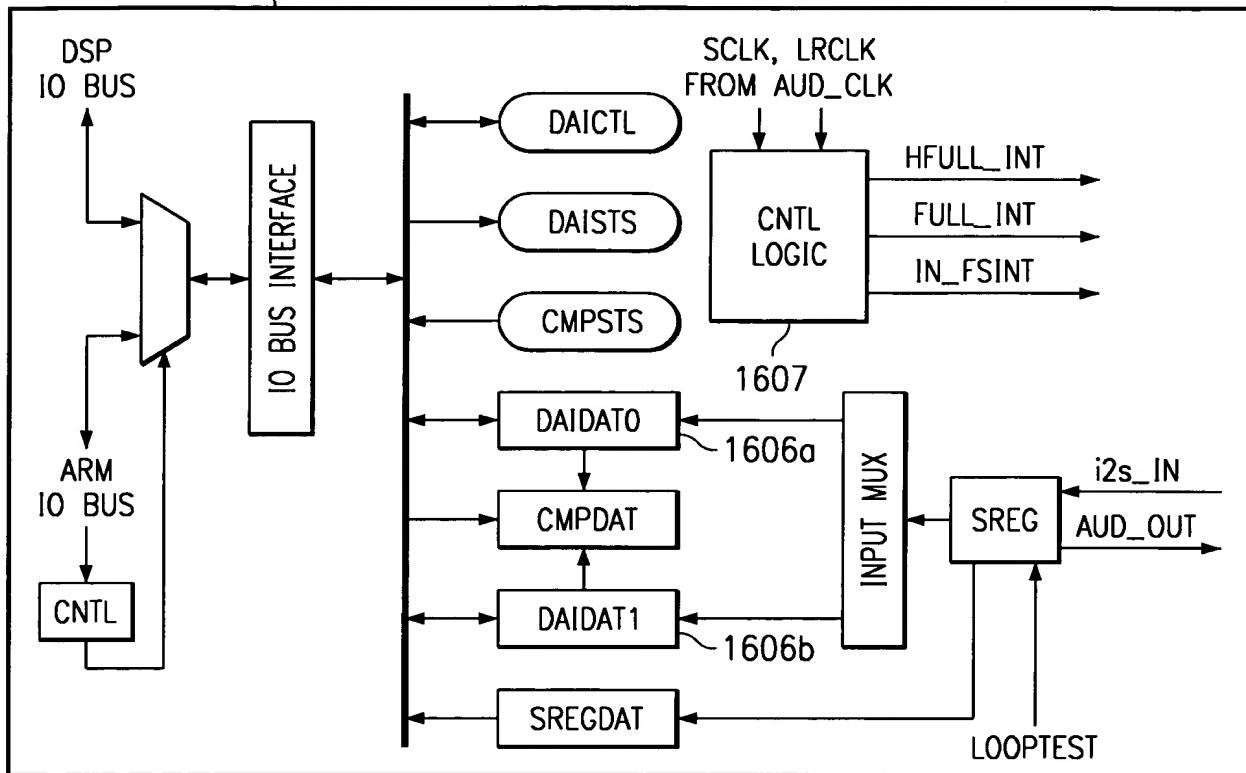
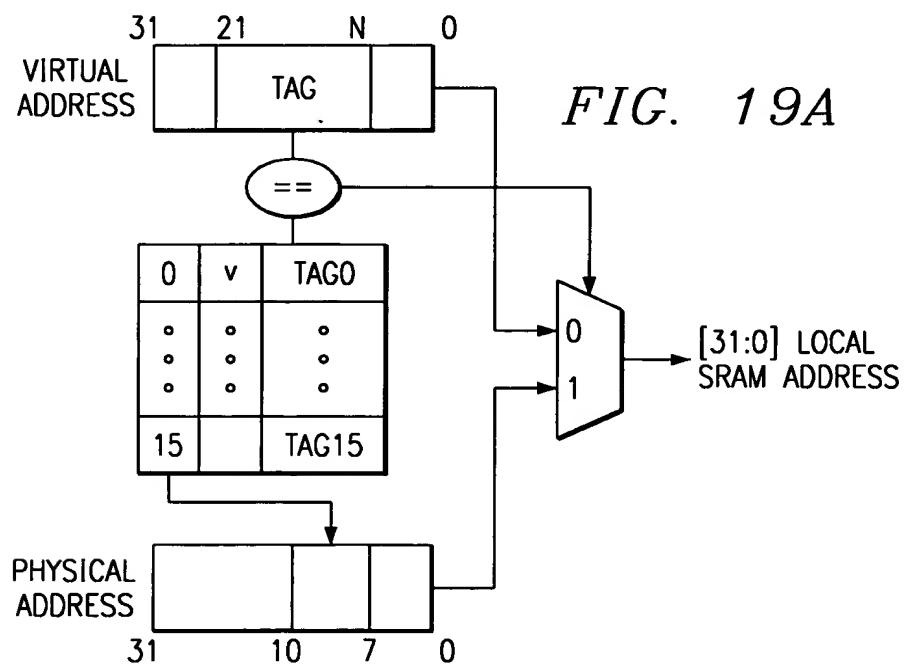
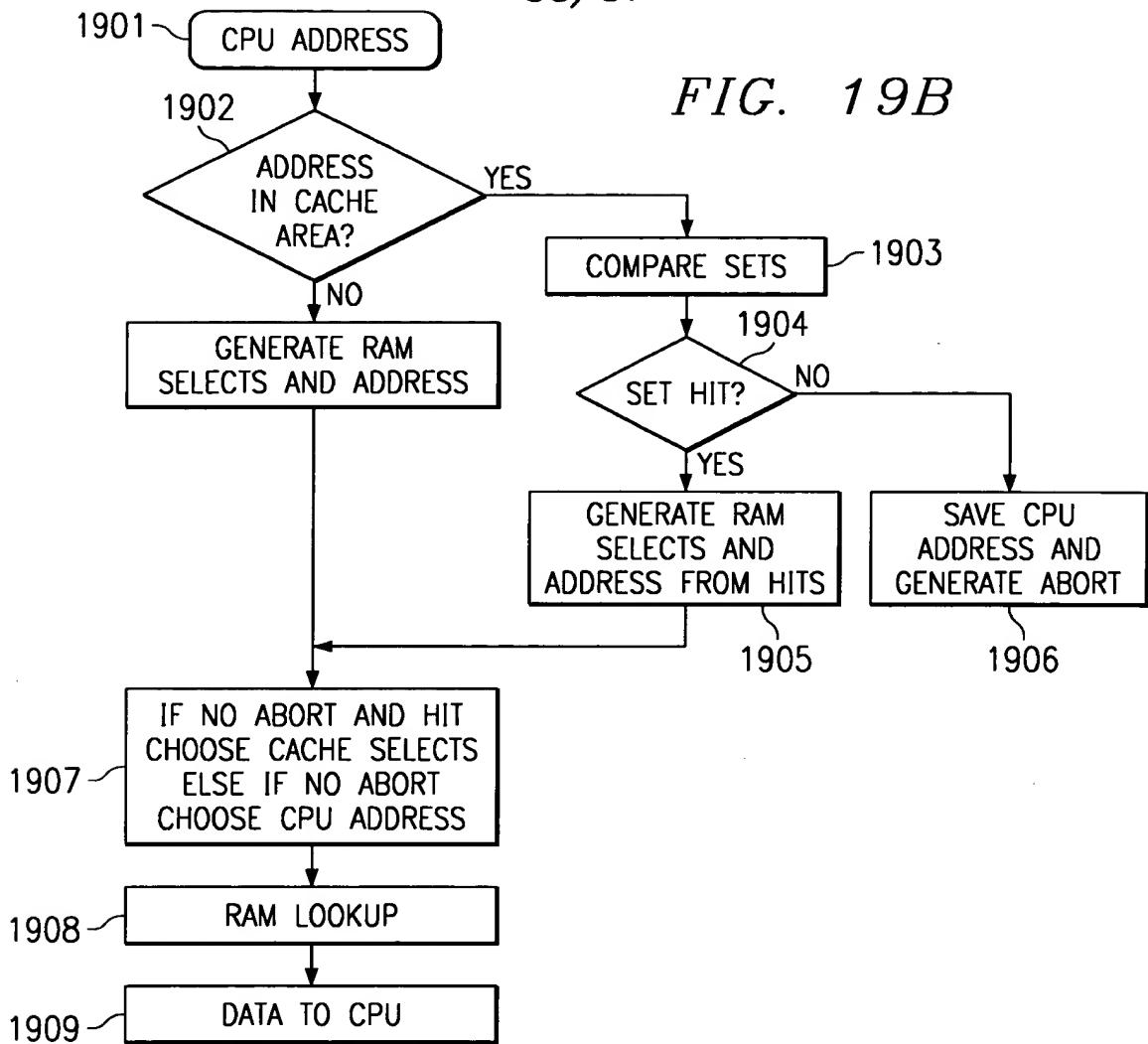
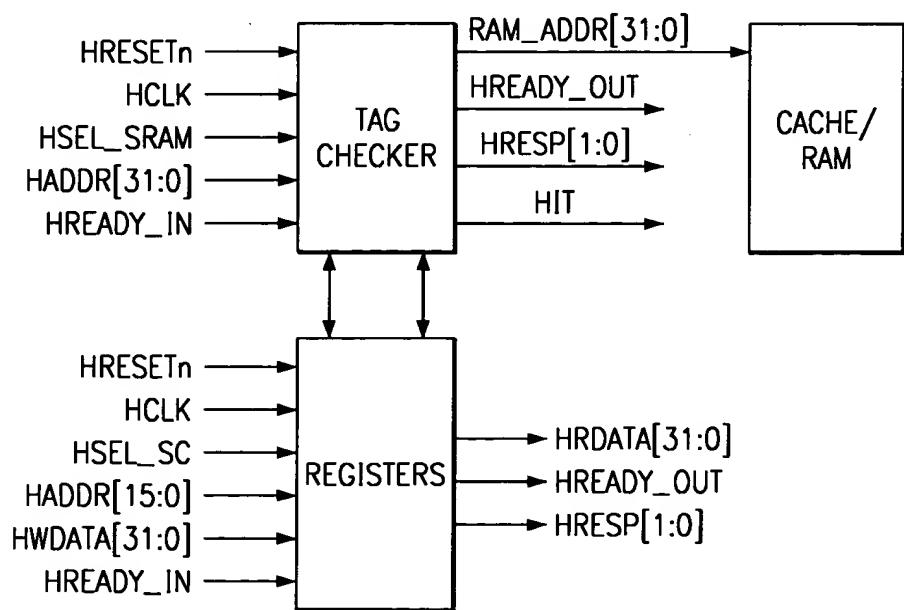


FIG. 19A





00000000000000000000000000000000

FIG. 19C

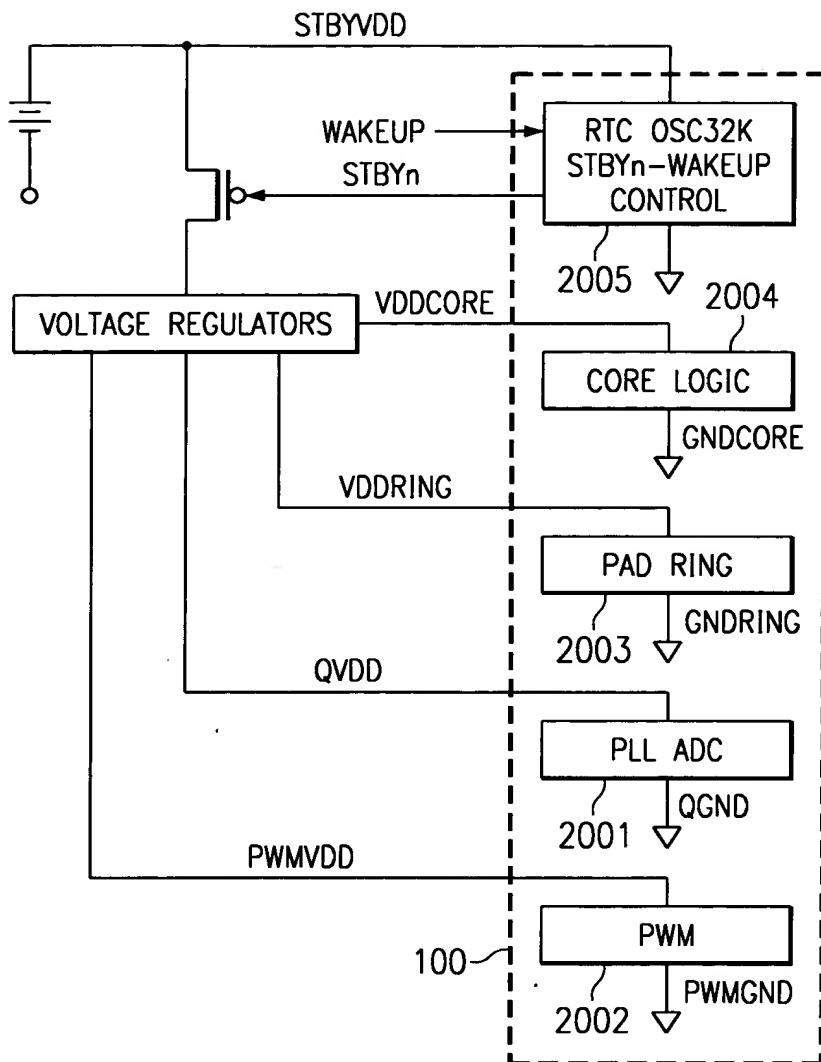


FIG. 20A

2005-06-20 10:20:50

FIG. 20B

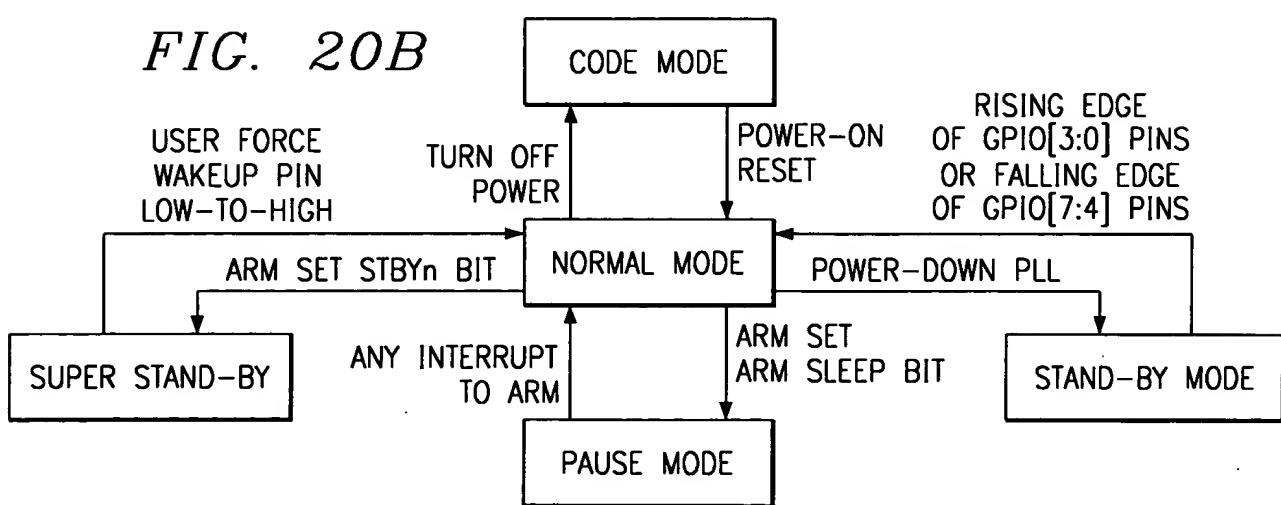


FIG. 20C

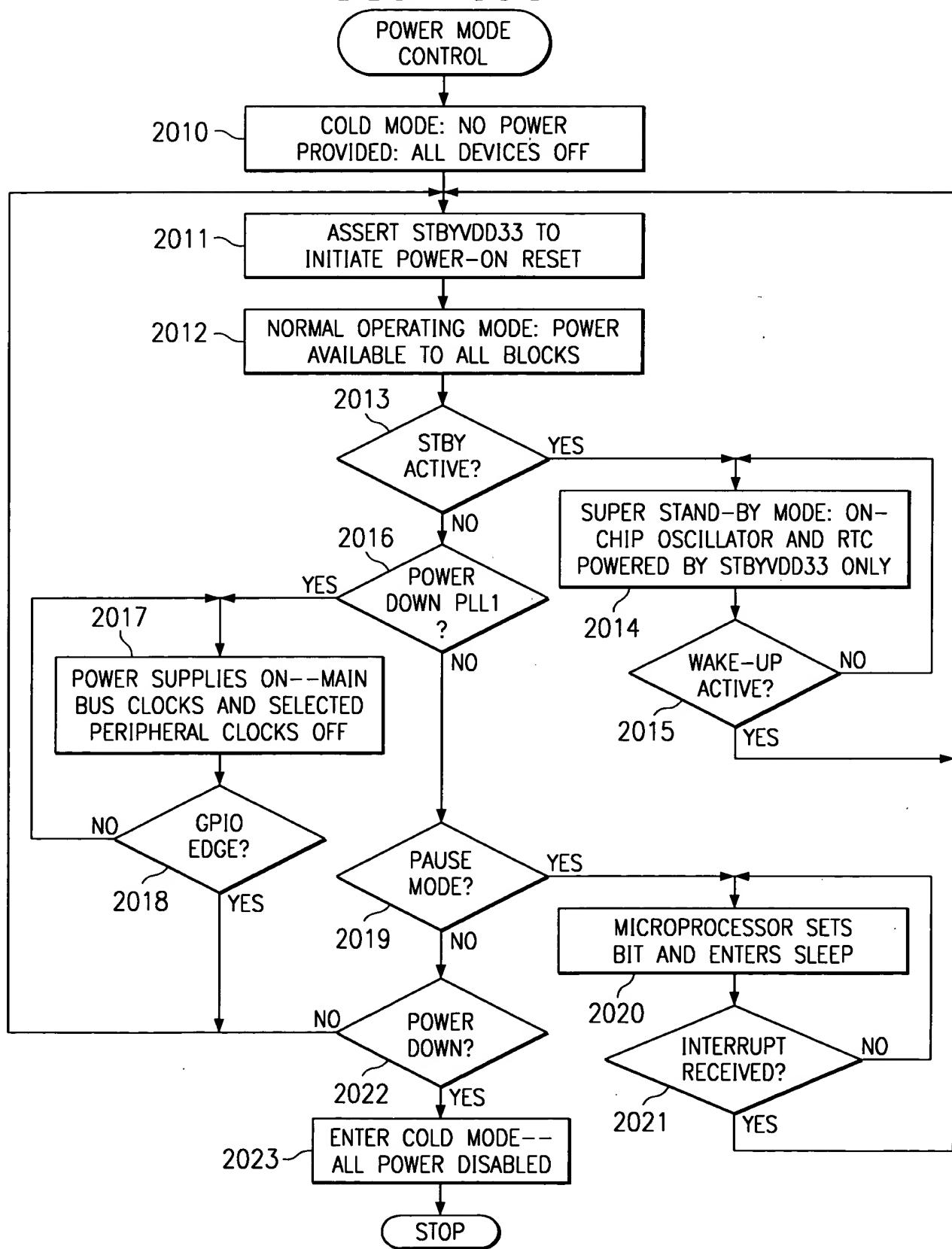
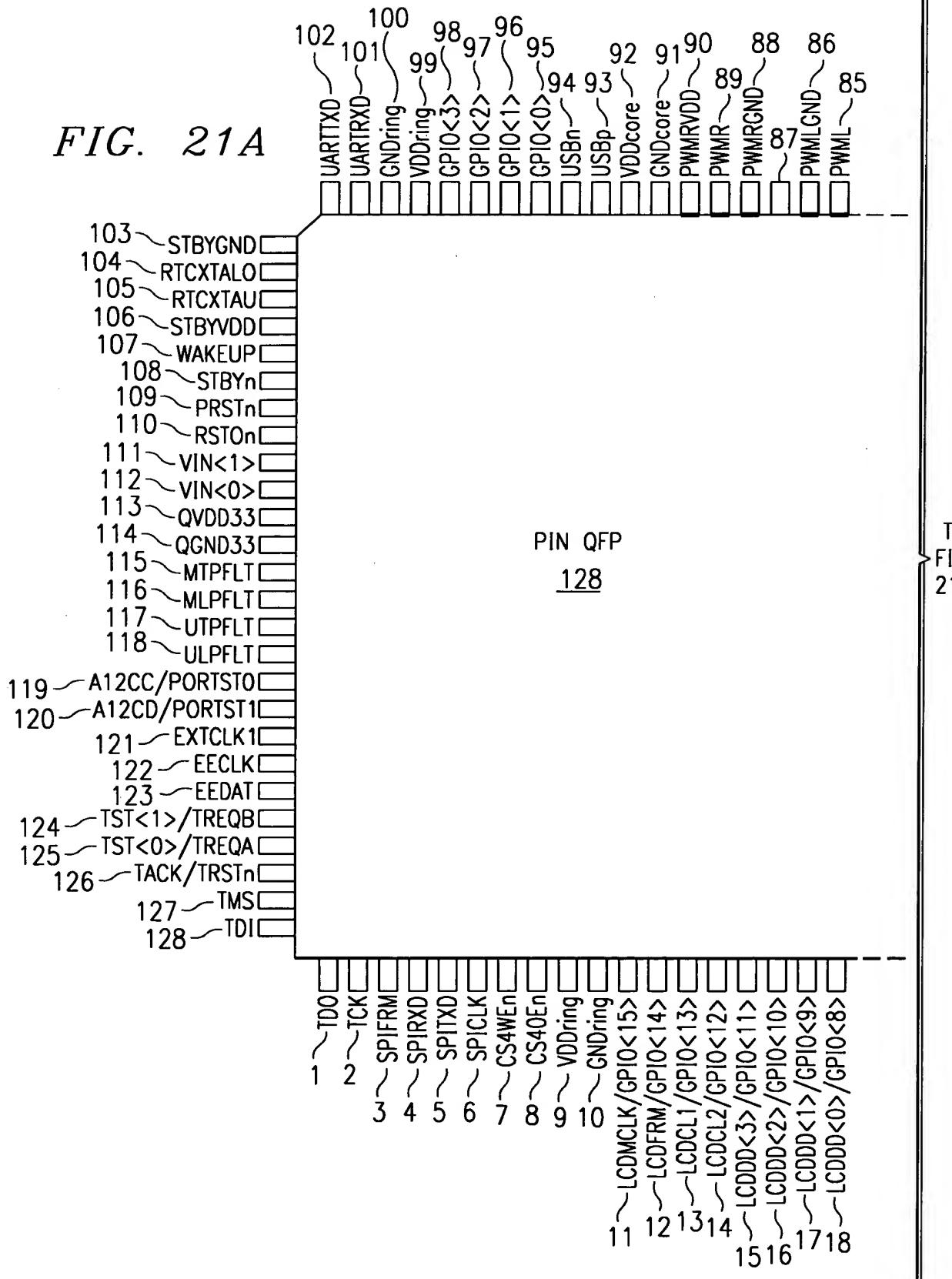


FIG. 21A



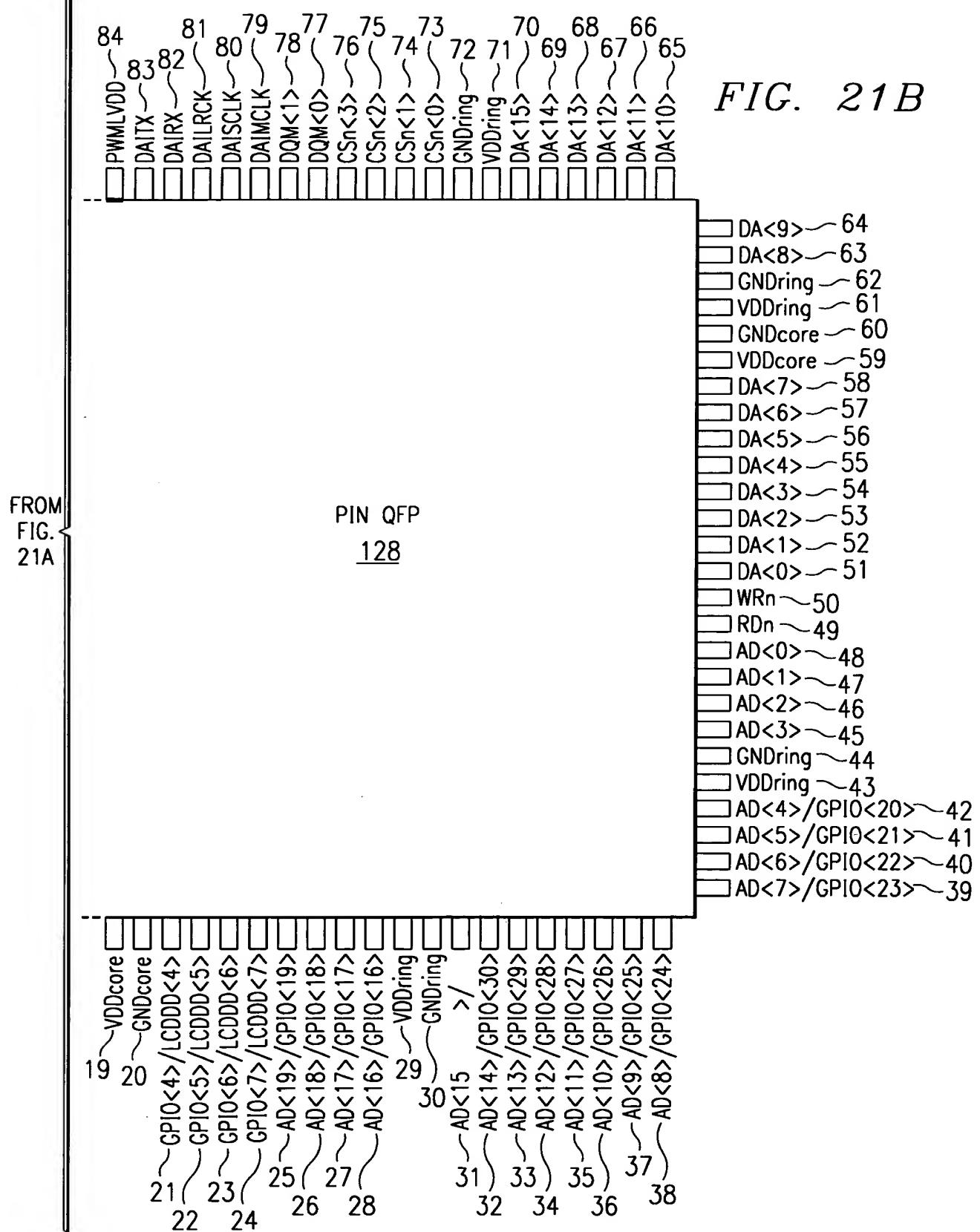


FIG. 21B